

RECORDED AND INDEXED BY [redacted]

Investigation of American asphalt oils. Comparison with Russian. I. I. Saranchuk and A. K. Vodolaya, *Neftegaz Akad.* 1937, No. 6, 26-31; *Chem. Zentr.* 1937, No. 10. The viscosity index calculated according to Gravett and according to Town and Davis shows a difference between Russian and American oils of 1-20 units. The Russian oils have a index of 80-85. Gravity synthetic oils from paraffin cracked distillates have an index of 111. Of the American oils, only 2 had an index of 0.0012; the rest showed values of 0.87-0.89%. The Russian oil showed ds. of 0.88-0.91%. The solidifying point of the American oils was -12° to -18°; for some it was -5° to -7°. The Conradson no. of the American oils was 1-1.5% higher than that of the Russian. Sapon. no. of the American oils is zero. The American oils consist of hydrocarbons and contain 2-3 naphthalene rings with long aliphatic side chains; they are either very low in, or free from, aromatic compds. The Russian oils from UGSO₃ refining process contain 0-18% aromatic compds.; those from selective refining contain 4-28.5%. In substantiation of earlier findings, the complete dependence of the phys. properties of the oils on their chem. compn was established. The viscosity and viscosity index stand in direct relation to the mol. wt. In oil of the same viscosity, the viscosity index and the sapon. no. decrease with increasing mol. wt., while the percentage content of naphthalene rings in the oil is increased at the expense of the paraffin chains.
M. G. Moore

REF ID: A6514A METALLURICAL LITERATURE CLASSIFICATION

34970
S/080/62/035/002/008/022
D202/D302

18.3100 (1087, 1521)
AUTHORS: Mikhina, V. N., Karsanov, G. V., Vorob'eva, A. S. and
Magidson, I. A.

TITLE: Electrolytic production of metallic chromium from aq.
chromic chloride

PERIODICAL: Zhurnal prikladnoy khimii, v. 35, no.2, 1962, 301-310

TEXT: The authors studied the effect of different factors on the output and quality of electrolytic chromium deposits from chromic chloride solutions with an NH_4BF_4 buffer solution, such as the concentrations of CrCl_3 and NH_4BF_4 , temperature, current density, Cr^{2+} , Cr^{3+} and NH_4^+ concentration and pH. The experiments were carried out in a 10 amp electrolyzer, in which the cathode and anode compartments were separated by a porous diaphragm. The apparatus is described in detail and illustrated. The best results were obtained under the following conditions: Concentrations of CrCl_3 and

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Electrolytic production of ...

NH_4BF_4 in the cathode compartment - 1.5 g-mol/l and 1 g-mol/l respectively, temperature $40 - 50^\circ\text{C}$ and c.d. about $15\text{A}/\text{dm}^2$; HCl concentration in the anode compartment 3.5 g-mol/l and that of CrCl_3 - 1 g-mol/l. The average current yield of metallic chromium was 76% (in some expts. even 80 - 85%), and the specific electric energy consumption was 10 - 12 kW-hr/kg. Cr. The results were checked on a large-scale laboratory equipment. Light, close-packed Cr deposits were obtained, easily detachable from the cathode. The current yield was 60 - 67% and energy consumption ~ 15 kW-hr/kg. The authors give a schematic diagram of the laboratory installation and propose a scheme for the industrial production of metallic Cr. The metal obtained on the large-scale installation contained the following impurities: Fe. - 0.05 - 0.10; Si < 0.005; O - 0.3 - 0.8; H - 0.02 - 0.10; N - 0.07 - 0.20; C - 0.02 - 0.03; S - 6×10^{-3} ; Mg < 5×10^{-3} ; Bi - $1 \times 10^{-4}\%$. There are 10 figures and 9 references: 7 Soviet-bloc and 2 non-Soviet-bloc. The reference to the English language publi-

Card 2/3

Electrolytic production of ...

S/080/62/035/002/008/022
D202/D302

cation reads as follows: H. R. Carveth and W. R. Mott, J. Phys.
Chem., 9, 231, 1905.

SUBMITTED: February 17, 1961.

Card 3/3

"APPROVED FOR RELEASE: 03/14/2001

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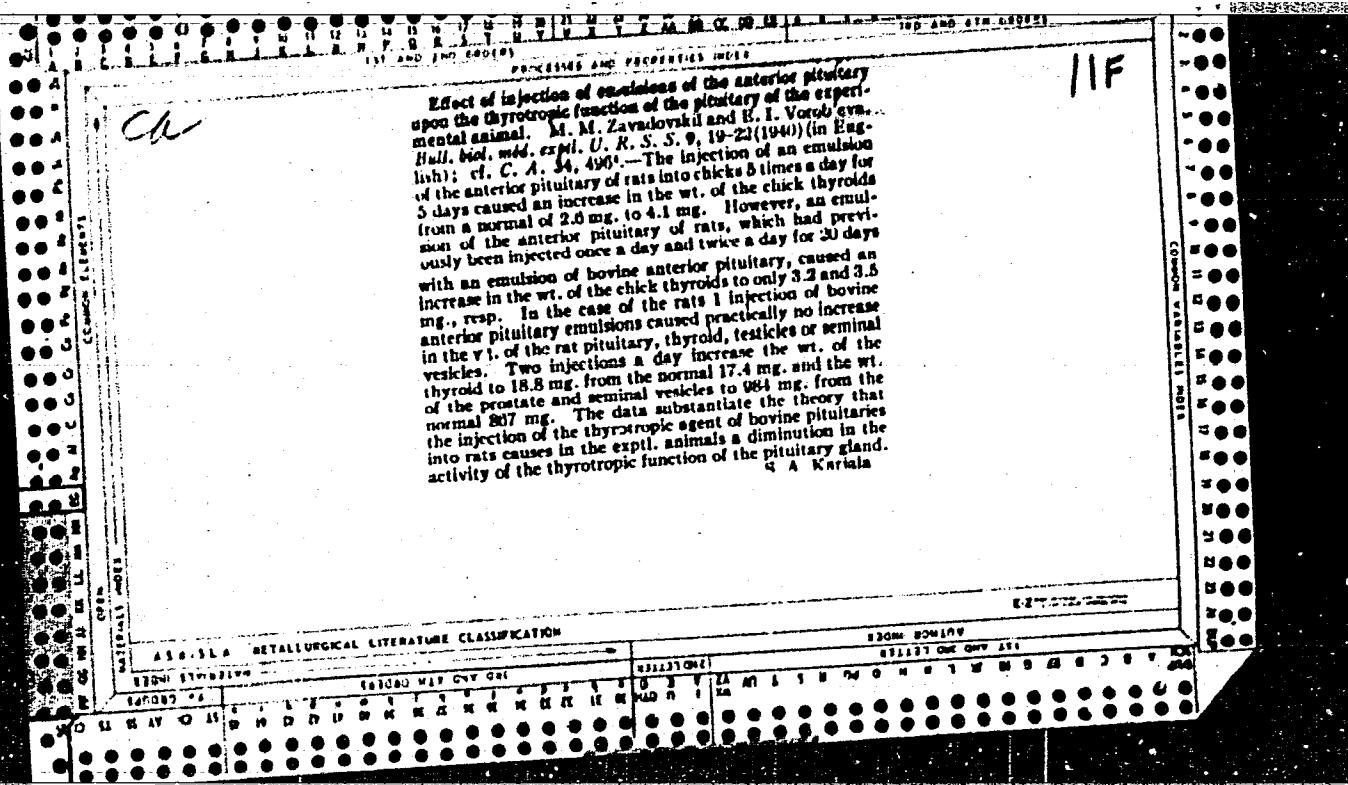
VOROBEVA, A. V.
O. E. ZVYAGINTSEV, ZhPKh, 10, 1969-78(1937)

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001860810016-0"

Treatment of sugar beets with lime for storage in stacks.
A. D. Goria and N. A. Vaynshteyn. *Sukharnaya Prom.* 22, No. 12, 17-21 (1948); *Chern. Zhur.* (Russian Zone Ed.) 1949, I, 1180.—Studies made in the U.S.S.R. showed that the effectiveness of powdered CaO or milk of lime in preserving sugar beets in stacks varied with the locality. In

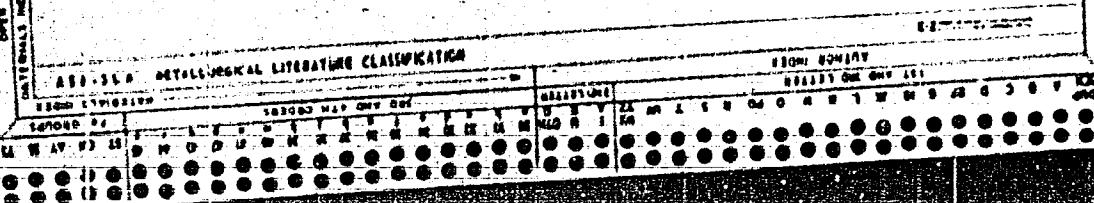
central Russia the sugar loss for beets treated with lime was only 19-74% the normal loss for untreated beets. In the Ukraine the sugar loss was about 70% of normal, while in the Kirgizian (Central Asian) region liming had no effect and in Georgia (U.S.S.R.) it was injurious. —M. G. M.

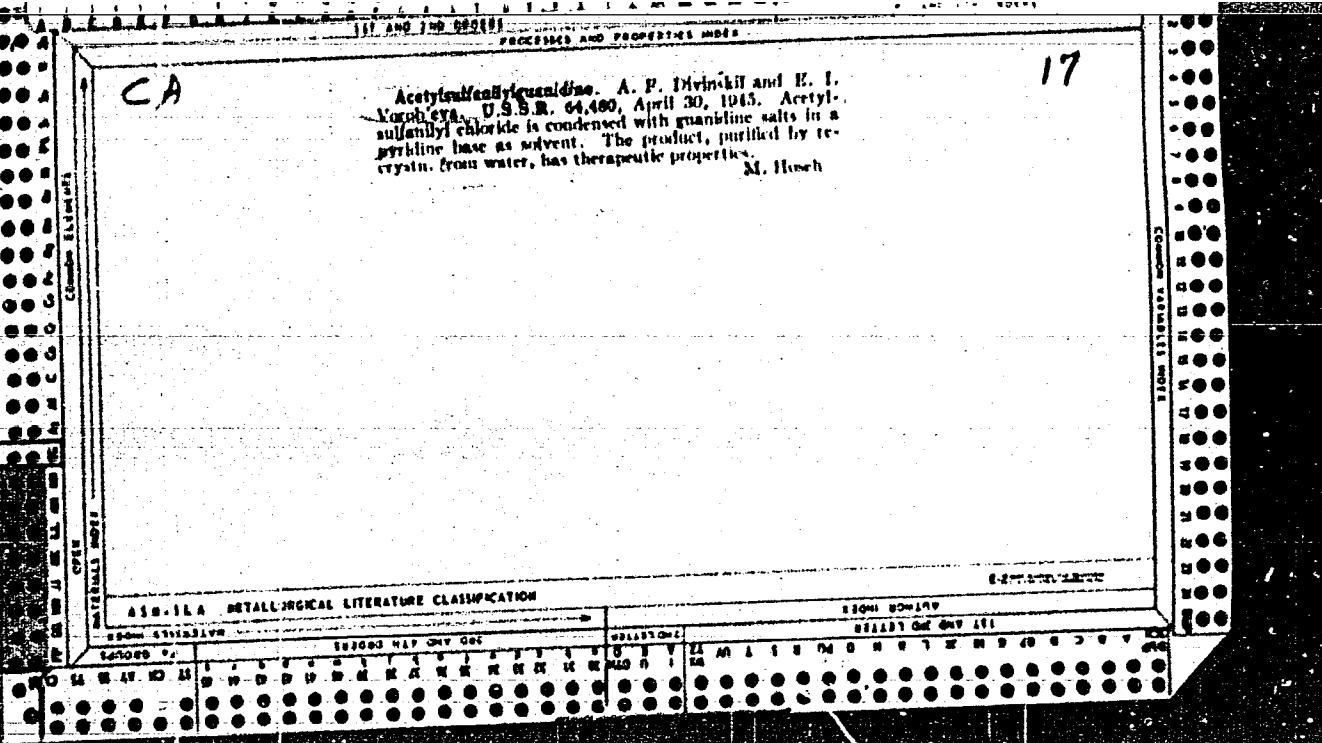


Q-3-1

BC

Role of perennial grasses in raising the plowing capacity of chernozem soils. N. I. Verbova (Podol'ye, 1980, No. 1), 61-62).—Perennial grasses improve soils by increasing the quantity of readily mobilized org. matter which contributes to the formation of stable aggregates. The structure was formed remained stable for 1 year after ploughing up the sod, but was completely destroyed after 4 years. A mixture of lucerne and grass was more effective than either separately. S. and V. (m)





BC

a - 4

Biochemical changes in oats affected with virus disease. V. L. RUMKOV, M. N. VOGORNYA, and E. P. GIOCOVSKO (Compt. rend. Acad. Sci. U.R.S.S., 1939, 26, 301-303).—Oat leaves infected with virus do not show any significant changes in N content but in dwarfs, total N increases whilst protein-N decreases. The amounts of reducing and non-reducing sugars and starch are increased. P metabolism of oat leaves is greatly affected by the disease; lipia-P decreases whilst acid-sol. P increases. The decrease in lipia-P appears to be related to the reduction and disintegration of plastids which occurs in diseased plants. The classification of the disease is discussed.

J. N. A.

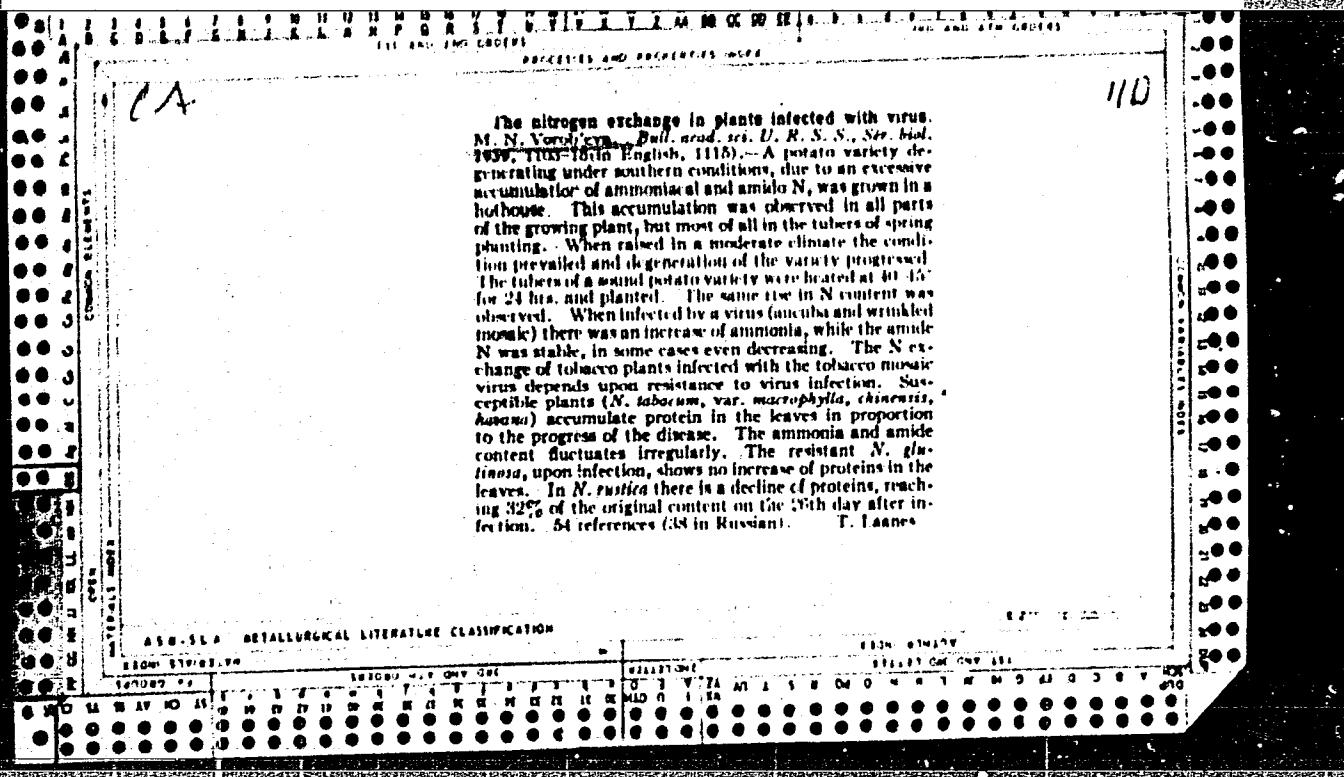
ASS-11-A METALLURICAL LITERATURE CLASSIFICATION

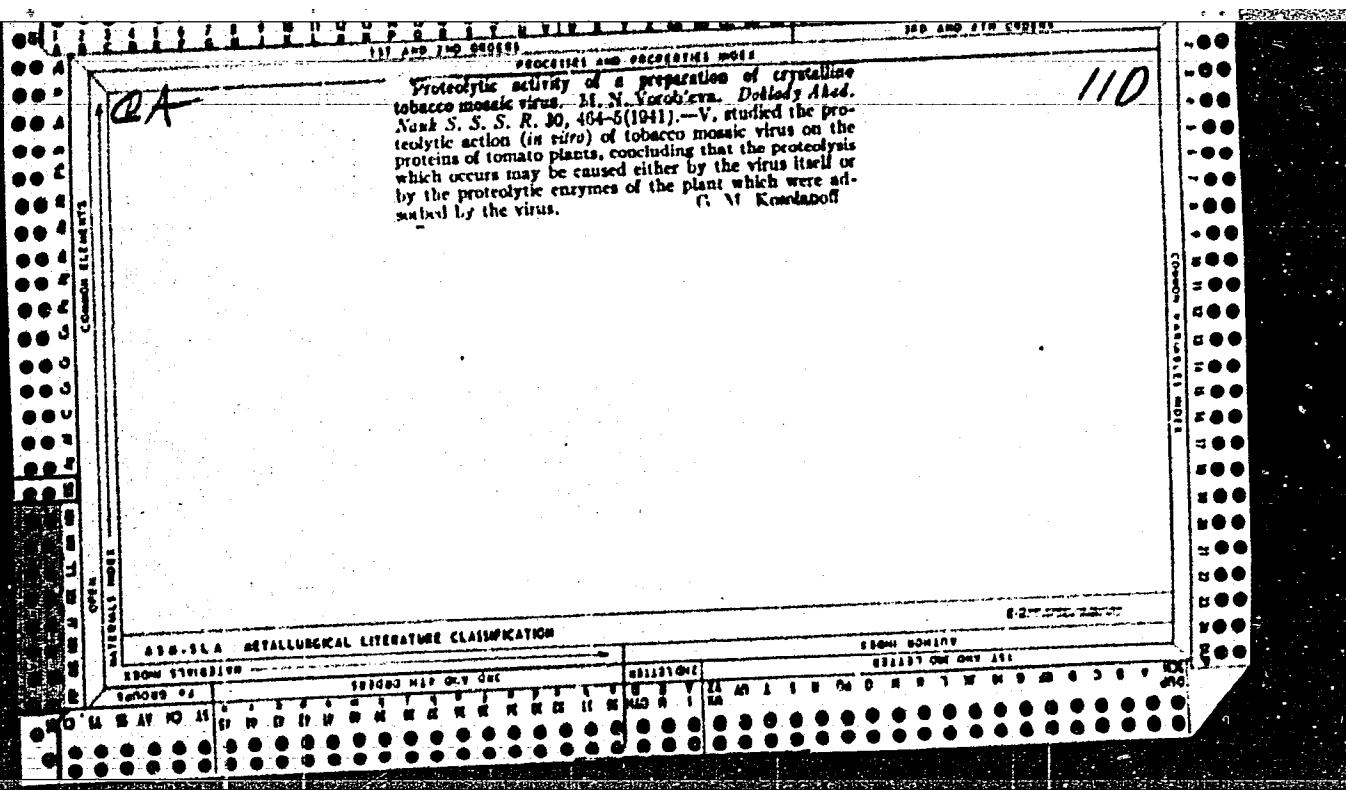
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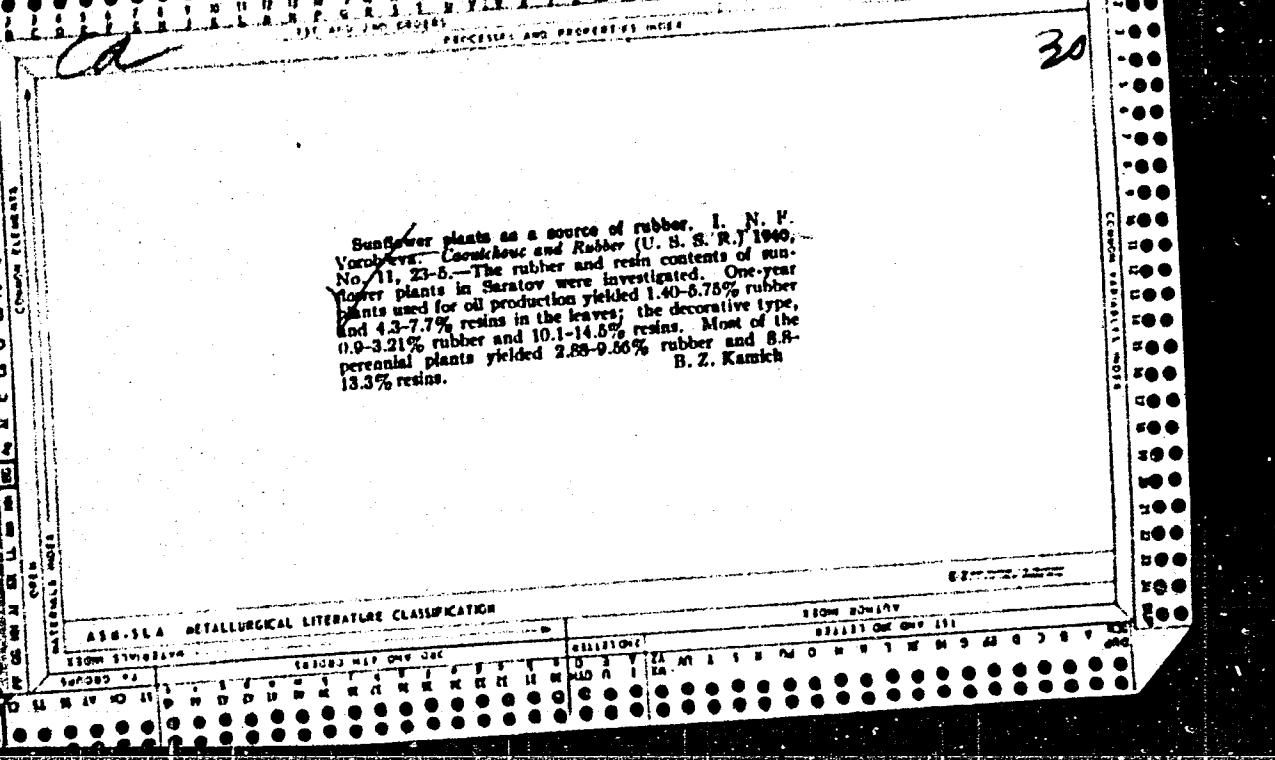
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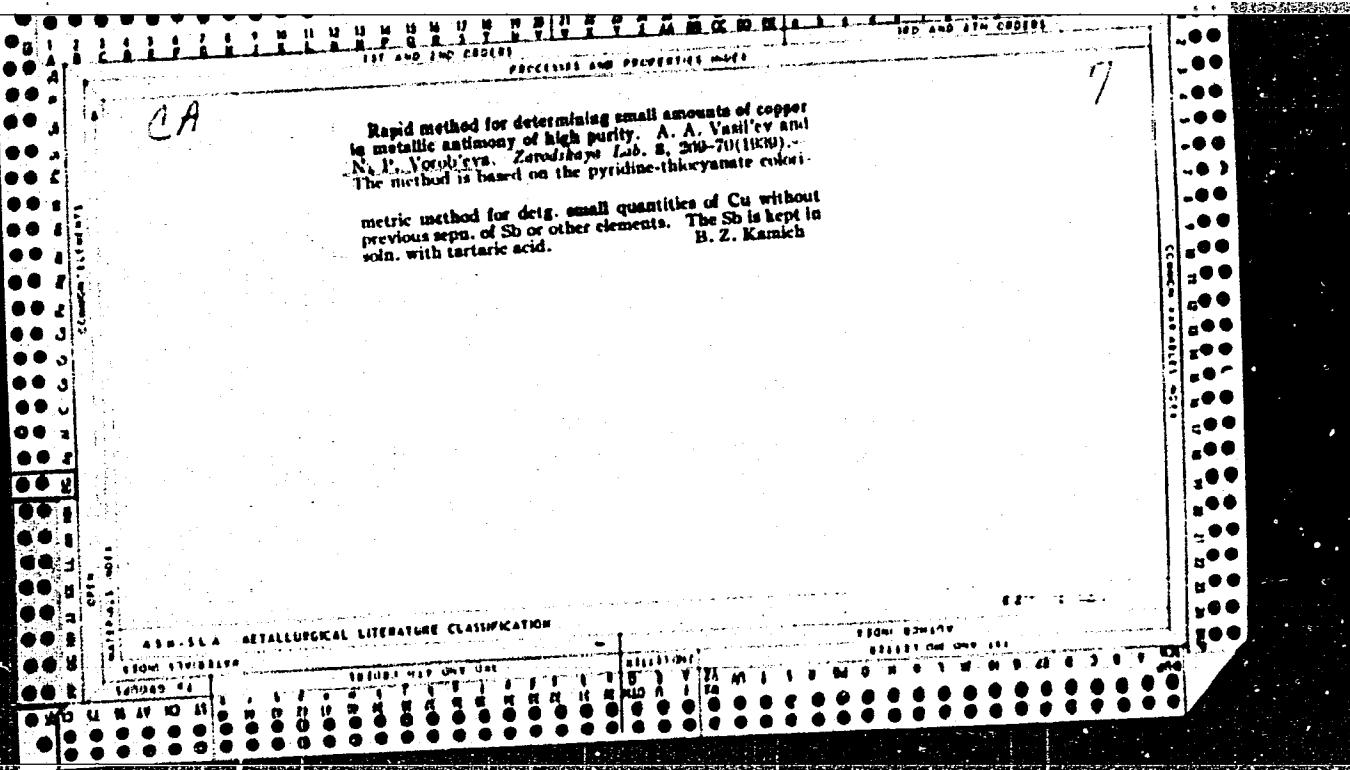
EDITION 1948





biochemical changes in oats affected with the virus disease "zakulivans." V. L. Ryalkov, M. N. Vorob'eva and K. P. Gromukho. *Compt. rend. acad. sci. U.R.S.S.* 24, 301-3 (1939) (in English).—Tests disclosed that (1) oat leaves show no important N-content change; the dwarfs increase somewhat in total N and decrease in protein N; (2) the content of reducing and nonreducing sugars and starch is increased by the disease; (3) the ratio carbohydrates/N favors the classification of the disease with the yellows, though there also are some typical symptoms of mosaic; (4) the P metabolism is greatly affected by the disease; the leaves of sick plants decrease in lipid P and increase in P contained in conids, sol. in 0.05 N HCl; (5) the decrease in lipid P appears to be related to the reduction and disintegration of plastids. A. H. Krappe





CA

The solution of mercuric sulfide in acid solutions of potassium iodide. A. A. Vasil'ev and N. P. Vinogradova. J. Russ. Chem. (U. S. S. R.) 6, 1701 (1930). It is dissolved in acidified strong solns. of KI with evolution of H₂S. The Hg is present in the soln. chiefly as HgI₂. Iodine.

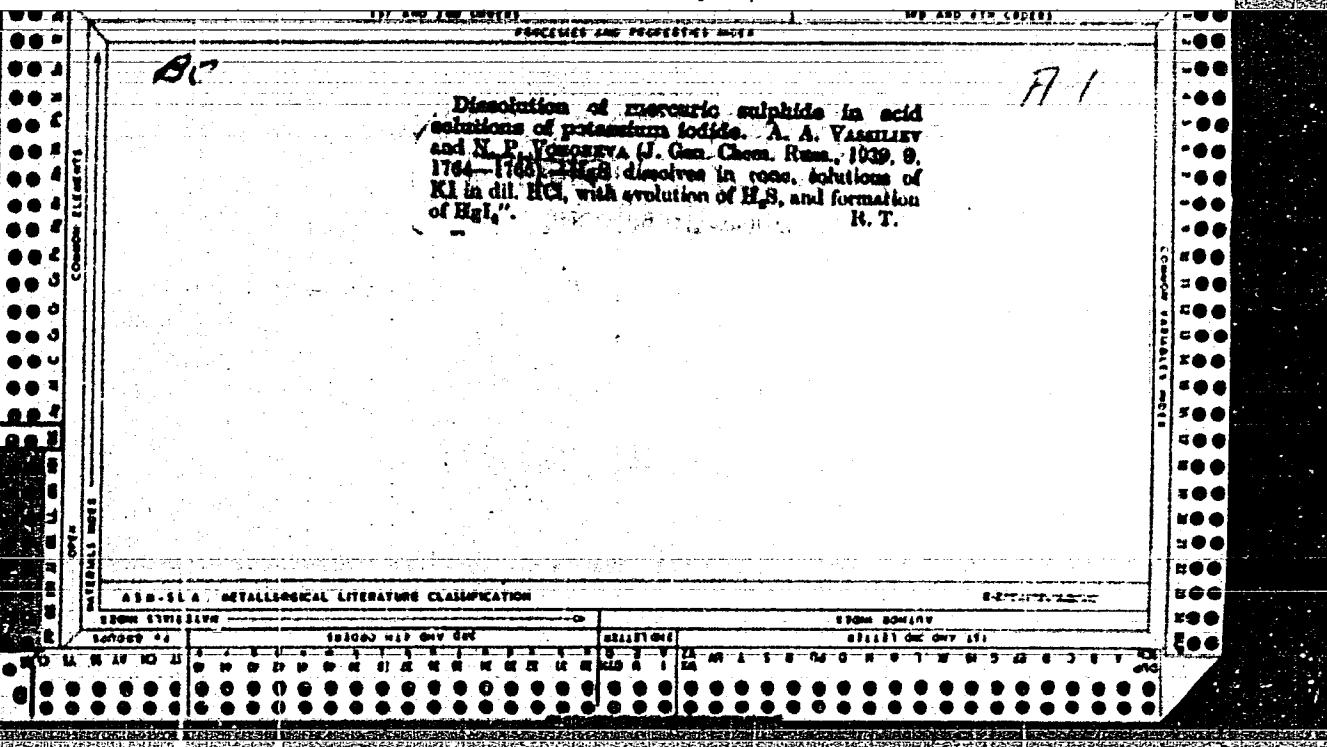
ASA-3A METALLURGICAL LITERATURE CLASSIFICATION

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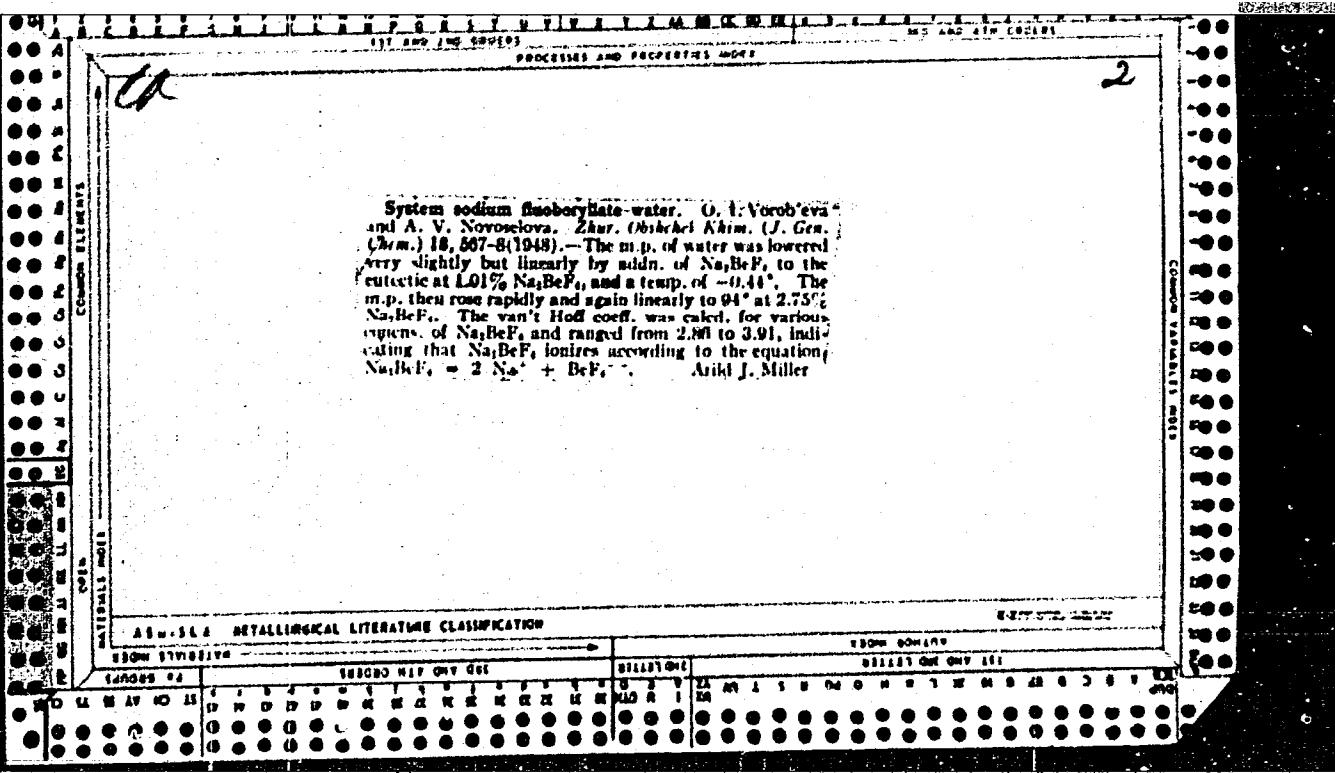


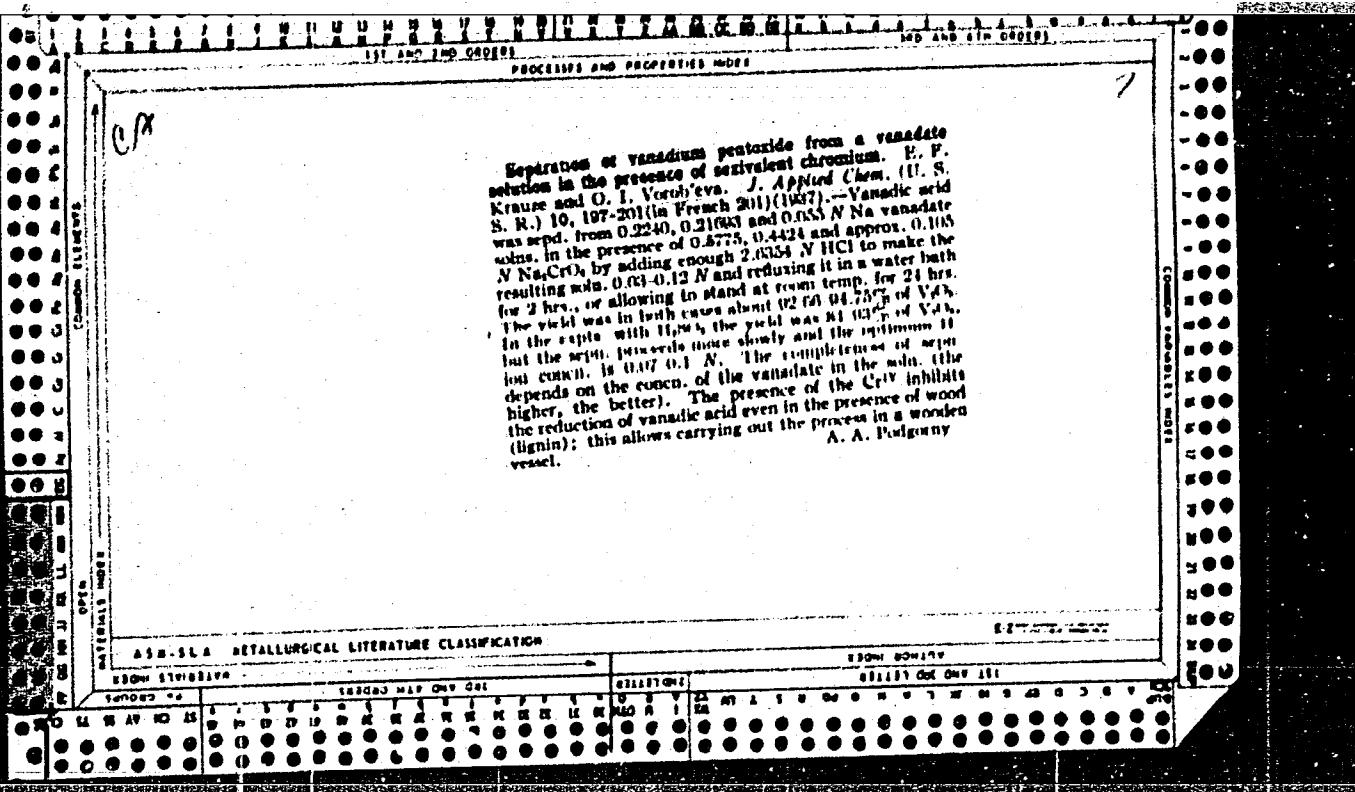
m.u.

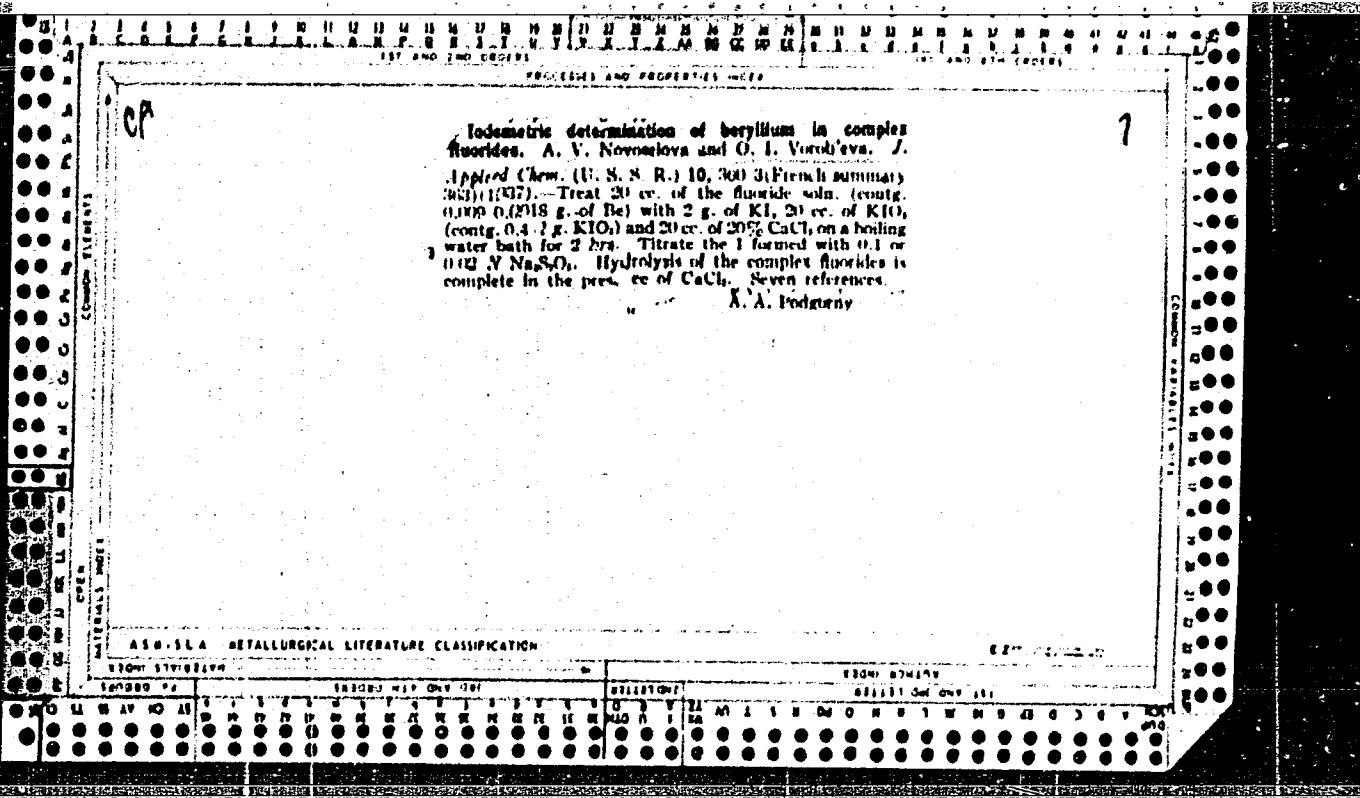
"Rapid Method for the Estimation of Traces of Copper in High-Grade Metallic Antimony. A. A. Vasilev and N. P. Vorob'eva (Zavod. Lab. (Works' Lab.), 1939, 8, 269-270; Chem. Zentral., 1940, III, 2330).—[In Russian.] Mix in a covered beaker 0.5-1 grm. of finely pulverized Sb with 5 c.c. HCl ($d = 1.19$), and add $KClO_3$ gradually until completely dissolved. Evaporate the solution almost to complete dryness; add 3-5 c.c. of a 50% tartaric acid solution, and transfer with a small amount of water into a 75 c.c. Egerete flask; mix with 10% NH_3 , until slightly alkaline, and acidify with a few drops of 10% acetic acid. Add 0.5 grm. ammonium thiocyanate crystals and 3-4 drops of pyridine; stir well, and allow to stand for 20-30 minutes. Then mix with 3 c.c. chloroform and shake carefully. Compare the colour of the chloroform layer with a standard solution which has been prepared under similar conditions and with similar amounts. The estimation requires barely an hour.

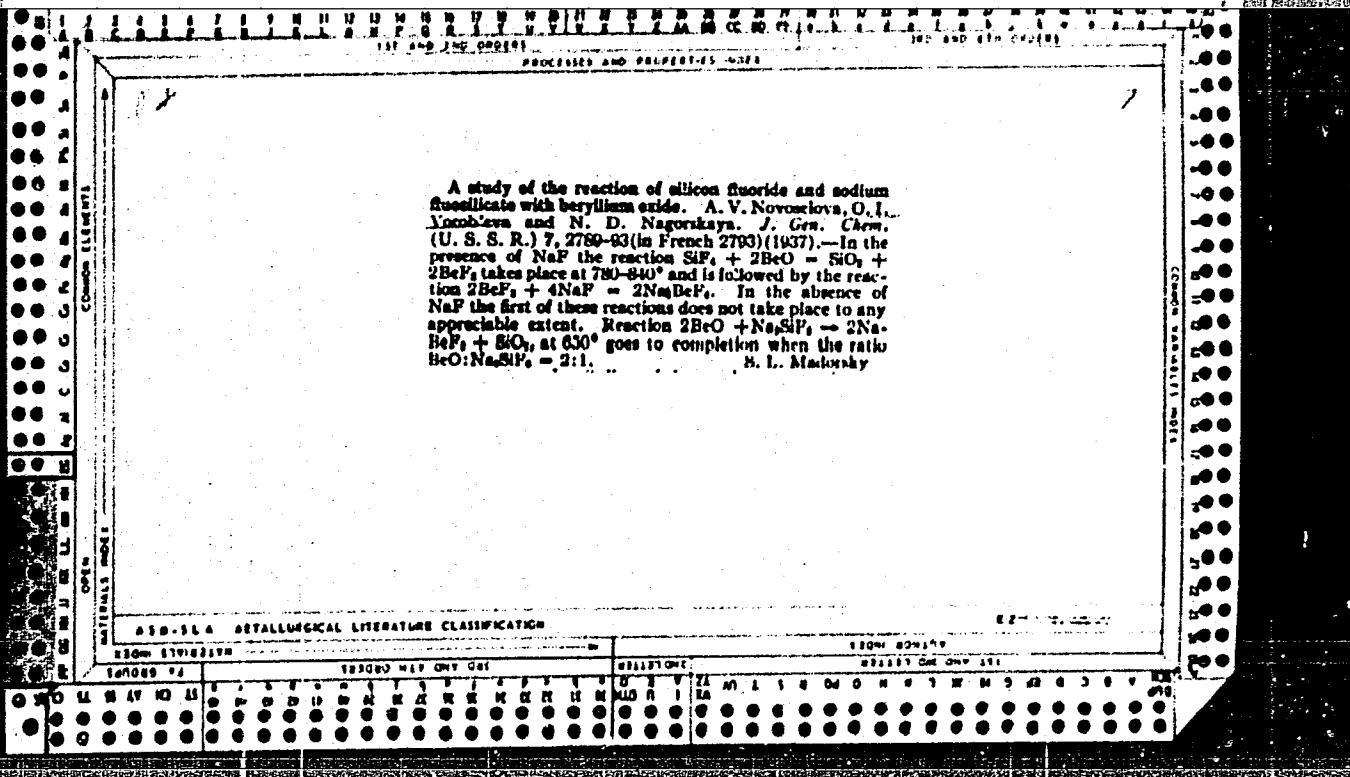
1943

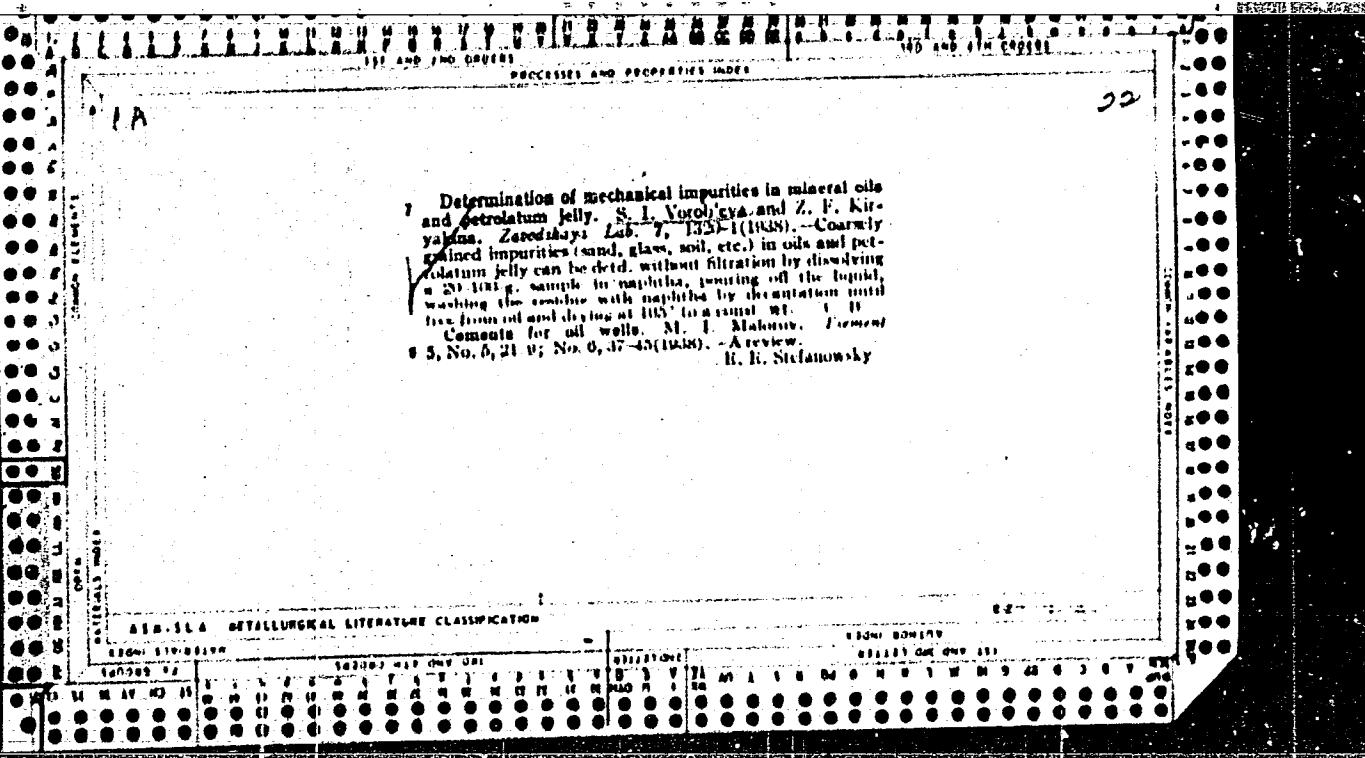
Reduction of quinquevalent vanadium compounds by hydrochloric acid. N. F. Krause and O. I. Vorob'eva
Sov. Rept. Moscow State Univ. 1936 No. 6, p. 13.—
The velocity of reduction of V^V to V^{IV} by HCl is proportional to [HCl], [NH₄VO₃] and temp. The reaction is:
V₂O₅ + 6HCl → 2VOCl₄ + 3H₂O; 2VOCl₄ → 2VOCl₃ + Cl₂. In pptg. V₂O₅ from vanadates by HCl the acidity should be not greater than 3 N at room temp., or 2.8 N at 100°.
B. C. A.











CA

7

Determination of gold in ores by the wet method. O. I. Zvyagintsev, V. A. Vorob'eva and S. K. Shabarin. Zarodikova Lab. 8, 909-10 (1939). The method is applicable to both sulfide and oxidized quartz ores. Sulfide ores are first treated with HNO₃, the Au is extd. with Li, then reduced and amalgamated with Hg. The amalgam is dissolved in HNO₃, the extd. Au is dissolved in aqua regia, and it is then detd. by the drop reaction on a filter paper impregnated with HgNO₃. The sensitivity of the method is 0.005 g./ton. B. Z. Kamich

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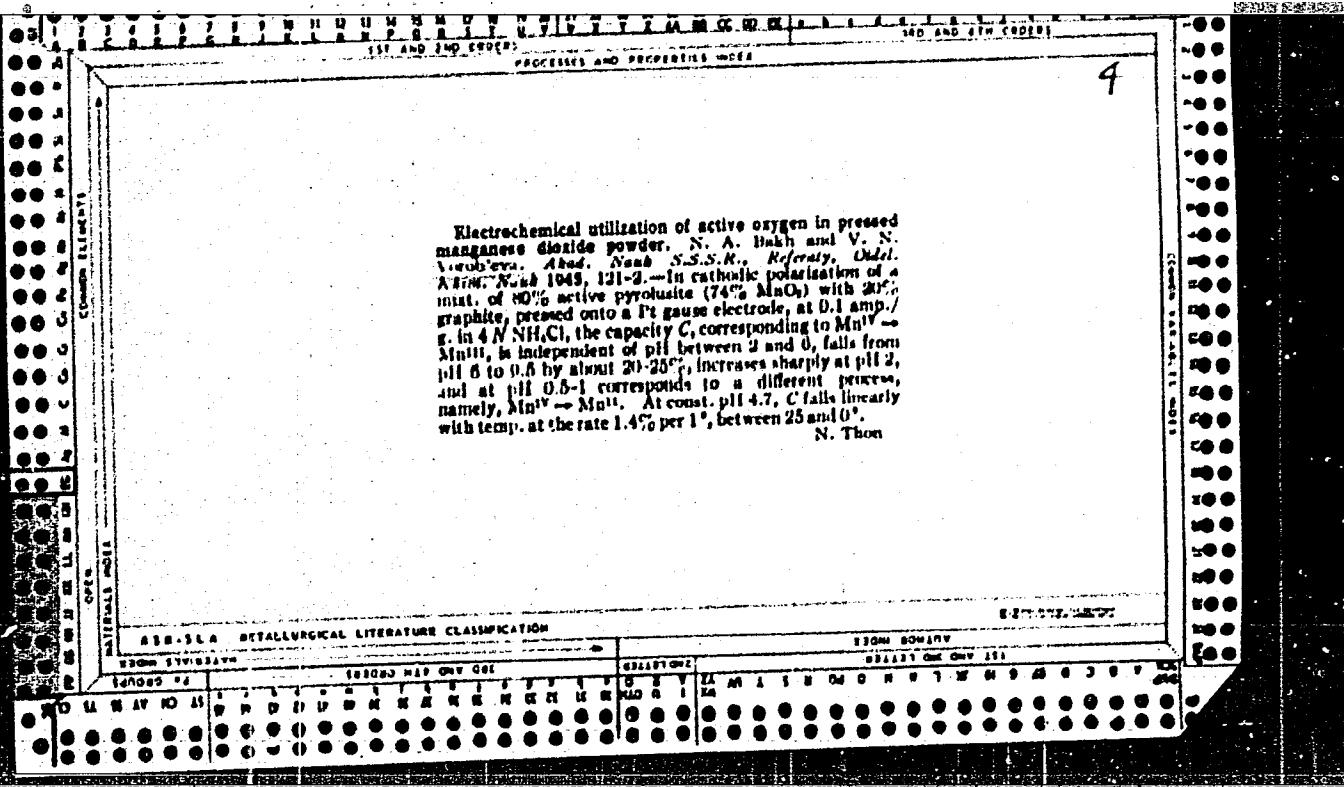
ECONOMIC

TECHNICAL

S33063 MAP ONLY JRC

VOLUME 52 NUMBER 1

MAY 1947



COMMON ELEMENTS		PERCENTAGE AND PROPERTIES																TESTS															
Ca		RESISTANCE TO CORROSION SHOWS BY "SDS" AND "MS"																9															
steels. A. M. Ostroumov and S. M. Vysotskaya, <i>Soviet Met.</i> , No. 10, 41 (1937); <i>Chem. Zentralbl.</i> , 101B, II, 2000. Tests of resistance to corrosion were made on ordinary C steel and 0.3% Cu steel as well as on the steels of superior mech. properties designated as "MS" (C 0.17-0.20, Cu 0.38-0.40%) and "SDS" (C 0.13-0.20, Cu 0.36-0.65 and Cr 0.25-0.51%). In weathering the C and "MS" steels on the one hand and the Cu and "SDS" steels on the other showed the same losses in wt. The "MS" and "SDS" steels were most resistant to sea water and to 5% NaCl soln. The Cu steel was most resistant to river water. The 2 trade-marked steels showed themselves to be sufficiently resistant to 5% H ₂ SO ₄ and HCl but not to 5% HNO ₃ . M. G. Moore																																	
AIA-ISA METALLURGICAL LITERATURE CLASSIFICATION																																	
ABSTRACTS OF METALLURGICAL LITERATURE		1937-1940																1941-1945															
SEARCHED		SEARCHED																SEARCHED															
INDEXED		INDEXED																INDEXED															
SUMMARIZED		SUMMARIZED																SUMMARIZED															
TRANSLATED		TRANSLATED																TRANSLATED															

VOROB'EV, A.; GAL'BURT, A., inzh.

Centralizing the maintenance of motor vehicles. Avt.transp. 43
(MIRA 236)
no. 5:22-24 My '65.

1. Zamestnatel' ministra avtomobil'nogo transporta RASSR (for
Vorobey).

VOROBEEV, A.

Maintenance of motor vehicles should be on a higher level. Avt.-
transp. 40 no.10:21-23 0 '62. (MIRA 15:11)

1. Zamestritel' nachal'nika Glavnogo upravleniya avtotransporta
pri Sovete Ministrov Belorusskoy SSR.
(Motor vehicles--Maintenance and repair)

VOROB'YEV, A.

Centralized administration of freight transportation in White Russia.
Avt.transp. 39 no.6:11-13 Je '61. (MIRA 14:7)

1. Zamestitel' nachal'nika Glavnogo upravleniya avtovozvoda pri
Sovete Ministrov BSSR.
(White Russia--Transportation, Automotive--Freight)

SAZHINOV, Viktor; KUPRIYANOV, Aleksey; MAKARTSEV, Ivan; VOROHEY, Aleksandr;
DEMENKOVETS, Nikolay; MURASHKO, Petr; KULINKOVICH, Aleksandr;
TULUYEVSKIY, Ivan; RADKOVSKIY, Leonid

Our experience in the operation of the BPF-2 pneumatic combine.
Turf. prom. 40 no.4:5-12 '63. (MIRA 16:10)

1. Noveikha-Zybinskoye torfopredpriyatiye Yaroslavskoy obl.
(for Sazhinov, Kupriyanov). 2. Torfopredpriyatiye "Bol'shevik"
Soveta narodnogo khozyaystva BSSR (for Makartsev).
3. Torfopredpriyatiye Vasilevichi II Soveta narodnogo khozyaystva
BSSR (for Vorobey, Demenkovets). 4. Torfobriketnyy zavod "Ulyazh"
(for Murashko, Kulinkovich, Tuluyevskiy). 5. Torfobriketnyy zavod
"Berezinskoye" (for Radkovskiy).
(Peat machinery)

VOROB'YEV, A.K.; LYUR'YE, G.S.; SHAPIRO, G., red.; GAL'BURT, A.,
spets. red.

[Mechanization and advanced methods for the maintenance and
repair of motor vehicles; practice of the automotive trans-
portation units of the White-Russian S.S.R.] Mekhanizatsiya
i peredovye metody tekhnicheskogo obsluzhivaniia i remonta
avtomobilei; iz opyta raboty avtokhoziaistv Belorusskoi SSR
Minsk, In-t nauchno-tekhn. informatsii i propagandy Gos.komi-
teta Soveta Ministrov BSSR po koordinatsii nauchno-issled. ra-
bot, 1963. 74 p.
(MIRA 18:2)

VOROB'YEV, Konstantin Antonovich; ROZANOV, M.D., red.; ONOSHKO, N.G., tekhn.
red.

[One for all and all for one; from the history of the first shock-worker brigade at the "Bol'shevik" Factory. Story of a brigade leader] Odin - za vsekh, vse - za odnogo; iz istorii pervoi udarnoi brigady na zavode "Bol'shevik." Rasskaz brigadira. Leningrad, Len-izdat, 1961. 151 p. (MIRA 14:11)

1. Brigadir pervoy udarnoy brigady na zavode "Bol'shevik" (for Vorob'yev).
(Leningrad—Socialist competition)

ZHOROVIN, Nikolay Anisimovich; KOLESNIK, A.A., prof., red.;
VOROB'YEV, P., red.; DIK, V., tekhn. red.

[Consumer's requirements of the quality of potatoes] Pot-
rebitel'nye kachestva kartofelia. Minsk, Gos.izd-vo sel'-
khoz.lit-ry BSSR, 1963. 145 p. (MIRA 16:12)
(White Russia--Potatoes)

SHAPIRO, David Kopelevich; GOLOMSHTOK, Moisey Markovich; VOROBEY,
P.S., red.; ZUYKOVA, V.I., tekhn. red.

[Harvesting, storing, and simple methods for processing
fruit and berries] Uborka, khranenie i prosteishaiia pere-
ratka plodov i iagod. Minsk, Izd-vo Akad. sel'khoz.
nauk BSSR, 1960. 55 p. (MIRA 15:10)
(Fruit) (Berries) (Canning and preserving)

MARCHENKO, A.A., kand. biol. nauk, otd. red.; SHIMAN, S.A., zam. red.; NEOFITOVA, V.K., kand. biol. nauk, red.; MIKHALEV, Ya.K., kand. sel'khoz. nauk, red.; VOROB'EV, P.S., red.; TIMOSHCHUK, R.S., tekhn. red.

[More production from a hectare] Bol'she produktsii s gektara zemli; sbornik nauchnykh rabot. Minsk, Gos.izd-vo sel'khoz.lit-ry, 1963. 138 p. (MIRA 17:1)

1. Mogilevskaya oblastnaya sel'skokhozyaystvennaya opyt-naya stantsiya. (Mogilev Province—Agriculture)

LUKASHEVICH, Sergey Ivanovich; KALUGINA, A.A., red.; VOROB'EV, P.S.,
red.; ZUYKOVA, V.I., tekhn. red.

[Problems of the economics of interfarm building organizations]
Voprosy ekonomiki mezhkolkhoznykh stroitel'nykh organizatsii.
Minsk, Izd-vo Akad. sel'khoz.nauk BSSR, 1961. 149 p.
(MIRA 15:7)

(Collective farms—Interfarm cooperation)
(Construction industry)

VOROB'YEV, Ya.I., inzh.

Inspection of blasting operations in ditches. Bezop. truda v proiz.
5 no.6:32-33 Je '61. (MIRA 14:6)

1. Upravleniye Kiyevskogo okruga Gosgortekhnadzora USSR.
(Kremenchug--Blasting)

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VOROB'EV, Z.F.

PART I BOOK INFORMATION -Sov/5053

Bogoroditsky, N. P., and V. V. Raspakov, eds.

Spravochnik po elektrotehnicheskim materialam. V dvukh tomakh. Spravochnik po elektrotehnicheskim materialam. V dvukh tomakh. Tom 2: Magnitnye, provodnicheskie, poluprovodnikovye i drugie materialy (Handbook on Electrical Engineering Materials). In two volumes. Vol. 2: Magnetic Conducting, Semiconducting, and Other Materials. Sov. Ed. -Magnitnye i drugie materialy. Sov. Gosizdat. 1960. 511 p. Errata slip inserted. 30,000 copies printed.

Eds.: N. A. Andrianov, N. P. Bogoroditsky, V. V. Raspakov; Sov. (this vol.), V. V. Kryzantsev, V. V. Laz'yakov, and N. N. Tsvetkov; Tech. Eds.: N. P. Bogoroditsky and V. V. Laz'yakov; Ref.: N. M. Slobolova.

Preface: This handbook is intended for technical personnel of electrical and radio engineering establishments, power stations and laboratories, electrical repair shops, laboratories, and scientific institutions. It also contains basic information on materials used in the manufacture of electrical equipment. The handbook contains data on electrical carbon, metallic conductors, electrical insulation, semiconductors, and important alloys. It does not include insulation materials, nor other characteristics of semiconducting materials, which serve covered in Volume I. The authors thank the specialists associated with the Department of Dielectrics and Insulation, which serve covered in Volume I. The authors thank the specialists associated with the Leningradsky [Leningrad] Electrotechnical Semiconductors of the Leningradsky [Leningrad] [Leningrad] Institute V. I. Ul'yanova [Lenin], especially Yu. I. Panov, Director, V. I. Ul'yanov (Lenin), especially Yu. I. Panov and Candidate of Technical Sciences, and O. F. Pantale'yev and Dr. V. V. Vorob'chikov, assistants, and O. N. Kornev for their assistance. References accompany each part.

Handbook on Electrical Engineering (Cont.) SOV/5058

3. Bases of manufacturing processes and types of thermoresistors	394
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5. Some problems of practical application of thermoresistors	396
6. Soviet-produced thermoresistors	397

Ch. XXVII. Nonlinear Resistors Based on Silicon Carbide
(Z. F. Vorobey and V. V. Pasynkov)

1. General information on nonlinear resistors	400
2. Properties of silicon carbide	401
3. Bases of the manufacturing processes of nonlinear resistors	404
4. Properties and application of nonlinear resistors	405

Bibliography to Part III [60 references: 46 Soviet, 9 English, 1 French, and 4 German]	408
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Card 15/19

VOROBET, Z. F.
USSR/Physics - Nonlinear characteristics

FD-564

Card 1/1 : Pub. 153 - 4/28

Author : Bogoroditskiy, N. P., and Vorobey, Z. F.

Title : Problem on the nonlinearity of the volt-ampere characteristics
of silicon-carbide resistors

Periodical : Zhur. tekhn. fiz. 24, 811-817, May 1954

Abstract : Investigate various silicon-carbide powers for a definite degree
of their compression without any binder. Show that the greater
the electrical conductivity of the system consisting of a set of
silicon-carbide granules in a weak field the earlier its growth sets
in under increasing voltage. The electrical conductivity in a strong
field varies according to the Frenkel law derived theoretically
for dielectrics and semiconductors. The coefficient of nonlinearity
is not constant, but depends on the range of the field strength.

Institution : ---

Submitted : December 2, 1952

VOROB'EV, Z. F.

NOGORODITSKIY, N.P.; VOROB'EV, Z.F.

Nonlinearity of voltampere characteristics of silicon carbide
resistors. Zhur.tekh.fiz. 24 no.5:811-817 My '54. (MLRA 7:7)
(Silicon carbide) (Electric resistors)

VOROB'EYCHIK, A.A.

Water economy of the Koksu-Kerkel'mas reed growths. Trudy Inst.
bot. AN Kazakh. SSR. 19:172-184 '64. (MIRA 18:5)

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CIA-RDP86-00513R001860810016-0

VOROBYCHIK, N. M.

Remains of mammals from deposits of the Aralian stage on the Ayaguz River. Mat. po ist. fauny i flory Kazakh. 2:28-33 '58. (NIRA 11:1)
(Ayaguz Valley--Mammals, Fossil)

VOROBYCHIK, N. M.

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SIG: VOROBYCHIK, N. M.

CIA-RDP86-00513R001860810016-0

GOROSHCHENKO, Ya.G.; MAYOROV, V.G.; VOROBIEYCHIK, A.I.; CHELPANOV, L.G.

Rotary-ring type furnace for the sulfuration of titanium-bearing
materials. Titan i ego splavy no.9:162-165 '63. (MIRA 16:9)
(Sulfuration—Equipment and supplies)
(Titanium ores)

ITKIN, A.L.; VOROBIEYCHIK, M.B.

Determining the economic expediency of the organization of tractor assembly plants. Trakt. i sel'khozmash. 33 no.12:34-35 D '63.

(MIRA 17:2)

1. Gosudarstvennyy institut po proyektirovaniyu traktornoy promyshlennosti i sel'skokhozyaystvennogo mashinostroyeniya.

L 34359-66 EWT(d)/EWP(h)/EWP(1) JT

(A)

ACC NR: AT6009032 SOURCE CODE: UR/2925/65/000/009/0271/0276

36

61

AUTHOR: Vorobeychik, M. Ya.

ORG: Scientific Council under the State Committee of the Council of Ministers of the RSFSR for the Coordination of Scientific Research Activities (Nauchnyi sovet pri Goskomite
Soveta Ministrov RSFSR po koordinatsii nauchno-issledovatel'skikh rabot)

TITLE: On the work of the scientific council for the overall study of the problem "The creation of designs for non-rail surface transport vehicles for operation in the northern and north-eastern regions of the RSFSR"

SOURCE: AN SSSR. Komissiya po problemam Severa. Problemy Severa, no. 9, 1965.
Ekonomika (Economics), 271-276

TOPIC TAGS: scientific conference, transportation equipment, transportation system

ABSTRACT: The paper contains a report on the work of a scientific council, established in January of 1962 under the State Committee of the Council of Ministers of the RSFSR for the Coordination of Scientific Research Activities, created to study the overall problem of the development of designs for non-rail-type transport equipment for operation in the North. The council and its various committees are made up of 82 scientists, designers,
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ACC NR: AT6009032

and other technical personnel. The primary tasks facing the council are: 1) the preparation of recommendations for the annual and long-range planning of scientific research work and implementation in the interests of the national economy of technical advances in the design of tractors and motor vehicles for use in the North; 2) the preparation and submission of proposals relating to new motor vehicle and tractor designs for operation in the North; 3) the analysis of the state-of-the-art in the area of auto-tractor building in the Soviet Union and in other northern countries, toward the end of improving the position of the Soviet Union in this field. The various committees which have been established under the overall supervision of the council are described and their functions are briefly discussed. The main body of the paper deals with certain recommendations and proposals which the Council has made with regard to specific equipment types already in production, or soon to be, for use in the North. Among these vehicles are the following: the wheeled and caterpillar-track vehicles GAZ-53s, ZIL-130s, ZIL-167, UAZ-451s, and UAZ-452A, a motor-driven sled for two passengers and 50 kg of cargo, the "Pingvin" snow-mobile, and others.

SUB CODE: 15 / SUBM DATE: none

Card 2/2

VOROBYCHIK, Ya.N.

Role of the emotional factor in the development of hypertension.
Zdrav. Bel. 7 no. 23-25 My '61. (MIRA 14:6)

1. Iz Obol'skoy uchastkovoy bol'nitsy Sirotinskogo rayona (glavnnyy
vrach V.G.Dunke).
(HYPERTENSION) (EMOTIONS)

VOROBYEYCHIK, Ya.N.; MINKEVICH, M.Ya.

Characteristics of psychotherapeutic aid in the country. Sov.med.
26 no.8:144-145 Ag '62. (MIRA 15:10)

1. Iz Obol'skoy sel'skoy uchastkovoy bol'nitsy Shumilinskogo
rayona Vitebskoy oblasti.
(PSYCHOTHERAPY) (MEDICINE, RURAL)

VOROBEEYCHIK, Ya.N.; MINKOVICH, M.Ya. (stantsiya Obol')

Rural physician and consultation services. Sovet. zdravookhr. 5:
40-42 '63 (MIRA 17:2)

1. Iz Obol'skoy sel'skoy uchastkovoy bol'nitsy Shumilinskogo
rayona Vitebskoy oblasti.

VOROBEEVCHIKOV, Aleksey Petrovich

[Analysis of the economic aspects of a collective farm] Analiz
khoziaistvennoi deistiel'nosti kolkhoza. Izd.2., perer. i dop.
Moskva, Gosstatizdat TsSU SSSR, 1960. 199 p. (MIRA 14:7)
(Collective farms)

VOROBETCHIKOV, A.P.; DEMBINSKIY, N.V.; KAUFMAN, M.Z.; PEYMER, Z.I.:
BRUNEVSKAYA, M., red.; STEPANOVA, I., tekhn.red.

[Analysis of the economic operation of an industrial enterprise]
Analiz khoziaistvennoi deiatel'nosti promyshlennogo predpriatiia.
Minsk, Gos.izd-vo BSSR, Red.nauchno-tekhn.lit-ry, 1959. 350 p.
(MIRA 14:1)

1. Nauchnyye rabotniki kafedry bukhgalterskogo ucheta i analiza
Belorusskogo gosudarstvennogo instituta narodnogo khozyaystva
im. V.V.Kuybysheva (for Vorobetchikov, Dembinskiy, Kaufman, Peymer).
(Accounting) (Industrial management)

VOROBEEVCHIKOV, B.M.

Pigmented acid-resistant strains of mycobacteria isolated from tuberculous foci in bones. Probl. tub. no. 2:79-83 '64.

(MIRA 17:12)

1. Bakteriologicheskaya laboratoriya (zav. V.A.Slov'yev) Leningradskogo instituta khirurgicheskogo tuberkuleza (dir. - prof. D.K.Khokhlov, nauchnyy rukovoditel' - deystvitel'nyy chlen AMN SSSR prof. P.G.Kornev).

VOROB'EYCHIKOV, B.M.

Pigmented acid-resistant strains of mycobacter'a isolated from tuber-
culous foci in bones. Probl. tub. no.2:79-83 '64.

(MIRA 17:12)

1. Bakteriologicheskaya laboratoriya (zav. V.A.Solov'yev) Le-
ningrad'skogo instituta khirurgicheskogo tuberkuleza (dir. - prof.
D.K.Khokhlov, nauchnyy rukovoditel' - deystvitel'nyy chlen AMN SSSR
prof. P.G.Kornev).

J-8765-66 ENT(1/EWA(h))

ACC NR: AR5018777

SOURCE CODE: UR/0274/65/000/007/B075/B075

SOURCE: Ref. zh. Radiotekhnika i elektron svyaz. Svednyy tom, Abs. 7B509

19

AUTHOR: Vorobeychikov, E. S.

B

TITLE: Amplification band of quadrupole amplifiers

CITED SOURCE: Dokl. Nauchno-tekhn. konferentsii, posvyashch. dryu radio. Tomsk, Tomskiy un-t, 1964, 108-112

TOPIC TAGS: electronic amplifier, quadrupole amplifier

TRANSLATION: Fundamental physical phenomena transpiring in the quadrupole amplifier whose principle of operation has been described in [1] are analyzed. At present, many essential points in the theory of quadrupole amplifier are little developed (e. g., calculation of frequency response). The connection between the amplification band and the electron-beam parameters is established. The electron-interaction band of the quadrupole amplifier can be determined from this formula: $\Delta f = \frac{\sqrt{6} u_0}{2\pi l}$.

where u_0 is the longitudinal component of the electron velocity and l is the coupling-element length. The formula shows that the electron-interaction band is independent of the working frequency and is determined by the velocity of electrons and the length of the coupling element. The passband of the oscillatory coupling elements is wider than that of the electron interaction; hence, the latter determines

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UDC: 621.575.93

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the passband of the entire amplifier.

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sov/58-59-7-16032

Translation from: Referativnyy Zhurnal Fizika, 1959, Nr 7, p 198 (USSR)

AUTHORS: Vorobeychikov, E.S., Klement'yev, F.M.

TITLE: On the Effect of External Forces on a Nonlinear System With Delayed
Feedback ✓

PERIODICAL: Tr. Sibirek, fiz.-tekhn. in-ta, 1958, Nr 36, pp 389 - 392

ABSTRACT: The authors carry out an analysis of stable oscillations in a self-
oscillatory system with delayed feedback in the presence of a
sinusoidal signal. In the case of a system with one degree of freedom,
an equation is derived which associates the amplitude and mistuning of
forced oscillations with the system's delay time, and the oscillation
stability conditions are formulated. By way of example, the authors
analyze the stability of a triode vhf oscillator and a magnetron
oscillator. ✓

L.I.

Card 1/1

VOROBYCHIKOV, L. T., Candidate Tech Sci (diss) -- "Experimental-theoretical investigation of central heating-cooling systems (for nonindustrial buildings)". Minsk, 1959. 19 pp (Beloruss Polytech Inst im I. V. Stalin, Cahier of "Heat Supply and Ventilation"), 150 copies (KL, No 24, 1959, 135)

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001860810016-0

VOROBIEVCHIKOV, V.D.

Portable ~~asphaltic concrete~~ for determination of car
tire, wood, and asphalt

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001860810016-0"

VOROB'YEVCHIKOV, V.A.

Titan yellow as an adsorption indicator for mercurimetry. Zav.
lab. 22 no.6:645-648 '56. (MLRA 9:8)
(Indicators and test papers) (Halides--Analysis)
(Mercurimetry)

VOROBYEYCHIKOV, V.M.

Determining bactericidal sectors of the ultraviolet spectrum
by using a Hilger ultraviolet spectograph with a quartz prism.
Trudy ISGMI 45:61-66 '58 (MIRA 11:11)

1. Kafedra mikrobiologii Leningradskogo sanitarno-gigienicheskogo
meditsinskogo instituta (zav. kafedroy - prof. M.N. Bashenin).
(ULTRAVIOLET RAYS—PHYSIOLOGICAL EFFECT)
(SPECTROGRAPH)

VOROBEEVCHIKOV, YE.S.

Category : USSR/Radiophysics - General Problems

I-1

Abs Jour : Ref Zhur - Fizika, No 2, 1957, No 4421

Author : Vorobeychikov, Y.E.S., Klement'yev, F.M.

Title : On the Action of an External Force on the Self-Oscillating Systems at Superhigh Frequencies.

Orig Pub : Radiotekhn. i elektronika, 1956, 1, No 3, 335-338

Abstract : Examination of the effect of the finite electron travel time on the behavior of self-excited oscillators, operating under the influence of an external sinusoidal electromotive force. The equivalent circuit of the system is given, and the differential equation is derived and solved for the equivalent circuit. Based on the solution obtained, an analysis was made of the stationary processes in triode and klystron oscillators. It is shown that the forced synchronization in systems of this type is determined to a considerable extent by the finite travel time of the electrons.

Card : 1/1

VOROB'YCHUK, Yu.G.; MIT'KIN, A.N.

Apparatus for the stability test of a punch during extrusion.
Avt.prom. no.3:42-43 Mr '61. (MIRA 14:3)

1. Nauchno-issledovatel'skiy eksperimental'nyy institut avtotraktornogo
elektrooborudovaniya i priborov.
(Punching machinery—Testing)

L 02017-67 EWP(c)/EWP(k)/EWT(d)/EWT(m)/T/EWP(1)/EWP(v)/EWP(t)/ETI IJP(c) JD/HW
 ACC NR: AM6005023 (N) Monograph UR 97

Vorob'yev, A. A.; Gorbunov, V. I.; Vorob'yev, V. A.; Titov, G. v.

16

Betatron defectoscopy of materials and products (Betatromnaya defektoskopiya materialov i izdeliy) Moscow, Atomizdat, 65. 0177 p. illus., biblio. 2,000 copies printed. BT1

TOPIC TAGS: spectroscopy, spectroscopic analysis, spectrophotometric analysis, beta spectroscopy, beta rays, beta beams, electron density, electron emission, electron detection, electron flaw, electron energy, particle beam

PURPOSE AND COVERAGE: This book describes the principles of exploitation of inductive electron accelerator - betatrons in defectoscopy of plated materials and industrial articles. Different methods of betatron defectoscopy are described, as well as their possibilities and deficiencies. This book is a practical handbook for industrial workers working on problems of defectoscopy of plated materials and other articles, as well as for the candidates and scientists working in the field of defectoscopy.

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SUB CODE: 20, || SUBM DATE: 20Jul65/ ORIG REF: 033/ OTH REF: 014

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ACC NR: AP6034223

(N)

SOURCE CODE: UR/0120/66/000/005/0085/0089

AUTHOR: Vorob'yev, A. A.; Korolev, G. A.; Lebedev, A. K.

ORG: Physico-Technical Institute, AN SSSR, Leningrad (Fiziko-tehnicheskiy institut
AN SSSR)

TITLE: Secondary emission shf detector of heavy charged particles

SOURCE: Pribory i tekhnika eksperimenta, no. 5, 1966, 85-89

TOPIC TAGS: secondary emission, particle detector, ~~nuclear~~, ^{heavy} particle, charged particle

ABSTRACT: A time detector of heavy charged particles based on the use of secondary emission is described. The charged particle passes through thin aluminum foil and knocks out secondary electrons which are directed to a shf cavity. The shf field generated in the cavity modulates the energy of passing particles. An electrostatic spectrometer analyses particles in respect to their energies. This permits separation of particles which passed through the cavity at the fixed phase of the shf field. A secondary emission multiplier was used as an electron detector. The combination consisting of the electrostatic spectrometer and the secondary emission multiplier provides the energetic resolution of 10%. The equipment has been tested using α -particles with 5 Mev for energy. Time resolution was about 2×10^{-11} sec.; recording effectiveness was 8%. The equipment was designed to measure the life time of nuclear levels which develop during α -particles disintegration. Orig. art. has: 8 figures.

SUB CODE: 09/ SUBM DATE: 02Oct65/ ORIG REF: 001/ OTH REF: 006

Card 1/1 UDC: 539.1.074

GNIDETS, I.R. [Gnidets', I.R.]; VOROBIOVA, L.P. [Vorobiova, L.P.];
SENDZYUK, L.A. [Sendziuk, L.A.]

Production and analysis of a sterile solution of butadione.
Farmatsev. zhur. 16 no.3:35-39 '61. (MIRA 14:6)

1. Kafedra tekhnologii lekarstv L'vovskogo meditsinskogo instituta,
zaveduyushchiy kafedroy dotsent Yu.O.Karpenko.
(PYRAZOLIDINEDIONE)

VOROBEEKOV, A. M.

"Investigation of the Fatigue Strength of Steel Wire Cable Under Complex Stress."
Cand Tech Sci, Inst of Mining imeni M. M. Fedorov, Acad Sci Ukrainian SSR, Kiev,
1955. (KL, No 16, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations
Defended at USSR Higher Educational Institutions (16).

VOROBEEV, A.M.

PEN'KOV, A.M.; VOROBEEYKOV, A.M.

Machine for the fatigue testing of wire ropes subjected to combined
load. Zav.lav.21 no.7:860-862 '55. (MIRA 8:10)

1. Institut gornogo dela Akademii nauk USSR
(Wire rope) (Testing machines)

8826

1960

S/032/61/027/001/023/037
B017/B054

AUTHORS: Vorobeykov, A. M. and Grabovetskiy, A. P.

TITLE: Machine for Testing the Fatigue of Clamped Specimens in
Pure Bending

PERIODICAL: Zavodskaya laboratoriya, 1961, Vol. 27, No. 1, p. 85

TEXT: The machine is schematically shown in a figure. The test specimen is held at one end by the clamps of a rotating spindle. The free end is subjected to a bending moment of the same magnitude as the reactive moment in the clamps, but with opposite sign. Under the action of these two moments, the specimen is subjected to pure bending. The machine is attached to the frame of a lathe, and permits a simultaneous testing of four specimens at $n = 2550$ rpm. There is 1 figure. X

Card 1/1

VOROBIEYKOV, A.M. (Kiyev); GUSHCHA, O.I. [Hushcha, O.I.] (Kiyev)

Investigating the strength of a thin cable. Prykl.mekh.
6 no.2:220-224 '60. (MIRA 13:8)

1. Institut gornogo dela AN USSR.
(Cables--Testing)

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...and the surface sample. The author concludes that the surface is of greater

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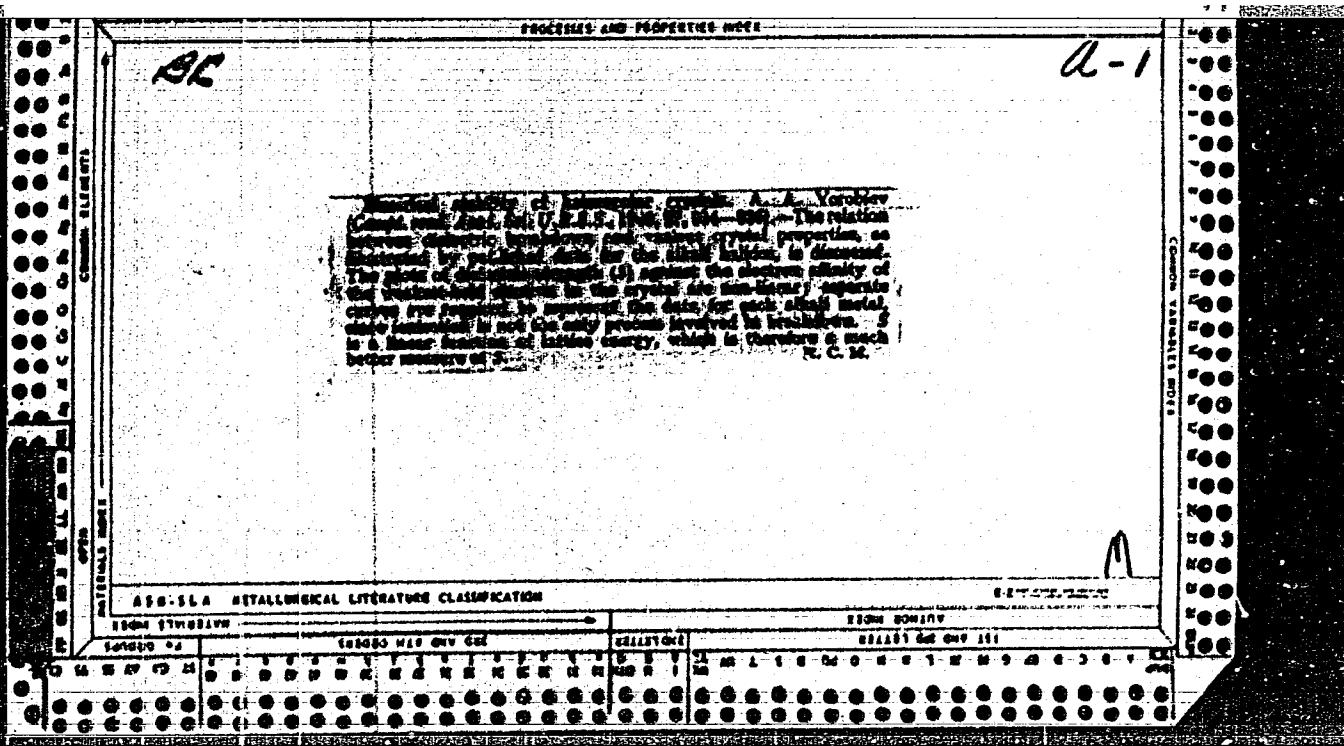
APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001860810016-0"

VOROBEEYKOV, A.N.

Endurance tests for ropes. Zav. lab. 30 no. 7:892-894 '64.
(MIRA 18:3)

1. Kiyevskoye vyssheye inzhenerno-aviatsionnoye voyennoye
uchilishche.



Bk. Abs.

Electrical stability of heteropolar crystals. A. A. Vorobiev (Compt. rend. Acad. Sci. U.S.S.R., 1940, 27, 934-936). The relation between dielectric breakdown and various crystal properties, as illustrated by published data for the alkali halides, is discussed. The plots of dielectric strength (S) against the electron affinity of the weakest-held electron in the crystal are non-linear; separate curves are required to represent the data for each alkali metal, since ionisation is not the only process involved in breakdown. S is a linear function of lattice energy, which is therefore a much better measure of S .
R.C.M.

SA

B 64
f

1966. Precipitation on conductors under various conditions. BOGDANOVA, N. B. AND VONOVSKY, A. A. J. Tech. Phys., USSR, 18, 1143-4 (Soviet Union) 1966. The deposition of moisture on conductors under corona was studied on single conductors facing a plane, a conductor within a coaxial cylinder, and two parallel conductors, under d.c. and a.c. conditions. The artificial precipitation reached a maximum of 1 mm/min. Ice formation was also studied. The current measured on moist conductors was always > on dry ones. If the corona prevents deposition of moisture and icing of the conductors, which is the case above a critical voltage, the current tends towards its normal intensity with rising corona voltage. The volt/ampere characteristics allow thus reliable deductions to be made concerning the moisture deposited on the conductors. The voltages actually preventing any moisture from being deposited (as well as ice formation) were determined in a number of cases.

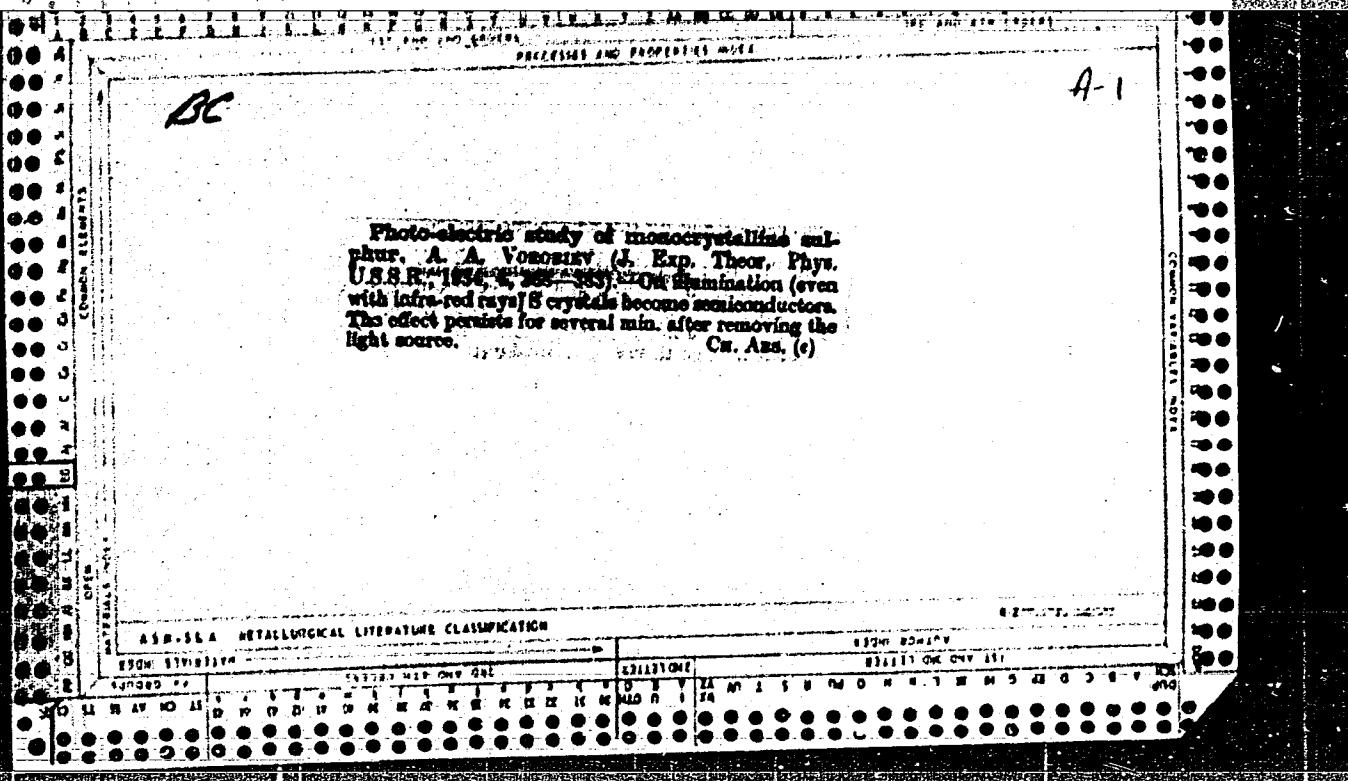
ASB-ELA METALLURGICAL LITERATURE CLASSIFICATION

SECTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000

A-1

BC

Electrical breakdown of insulating crystals. A. A. Vorob'ev
J. Phys. U.R.S.S., 1919, 8, 73--80).--The breakdown voltage of crystals of the alkali halides is correlated with the ionization energy of the most loosely bound electrons, the lattice energy, the activation energy and m.p., and the polarisability of the crystal lattice. It is concluded that the electrical stability of solid dielectrics is a physical property determined by the chemical composition and crystal structure, and not dependent on slight structural irregularities.
L. J.



B. A.

Discharges in polycrystalline materials. A. A. Vassiliev. [Compt. rend. Acad. Sci. U.R.S.S., 1940, No. 718-719]—The spreading of an electric discharge through crystals owing to the presence of mechanical strains has been investigated. Spreading of the discharge does not occur within parts of the crystal subject to pressures approaching those causing fracture. The discharge proceeds along the boundary between the strained and unstrained parts in the direction of the greatest gradient of strain. Discharges in crystals with regions of different concn. of free electrons were also studied. The length of the discharge is the part of the crystal which has an increased concn. of free electrons is about twice as great as that in the original crystal. The path of the discharge is more branched, and the discharge is stronger. The breaking up of the crystal along the path of the discharge is also more marked. When the point electrode is positively charged the path of the discharge follows the crystallographic axes, and is unaffected by an applied electric field. When the point is negative, the direction of the discharge is less definite, and is more easily affected by the application of an electric field.

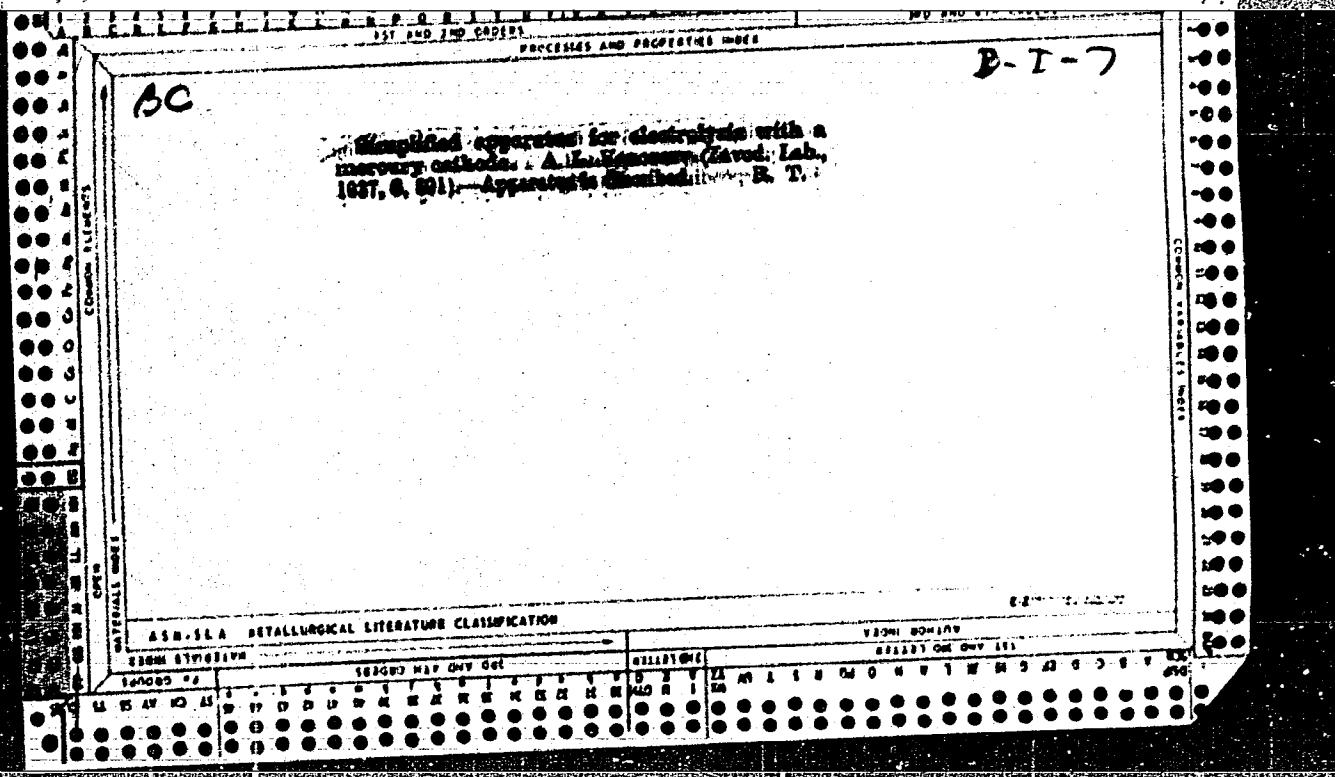
A. J. M.

Bal. Abs.

Stark effect in dielectrics. A. A. Voshchety. (Comp. rend. Acad. Sci. U.R.S.S., 1940, 50, 770-771).—The absorption of light by crystals (rock-salt, Iceland spar, KI, NaBr, g. mica) placed in a strong electric field has been investigated. No displacement of the absorption limit in the ultra-violet (or for irradiated crystals, in the visible) was found, even though the field strength was only 10-20% < the breakdown strength. A. J. M.

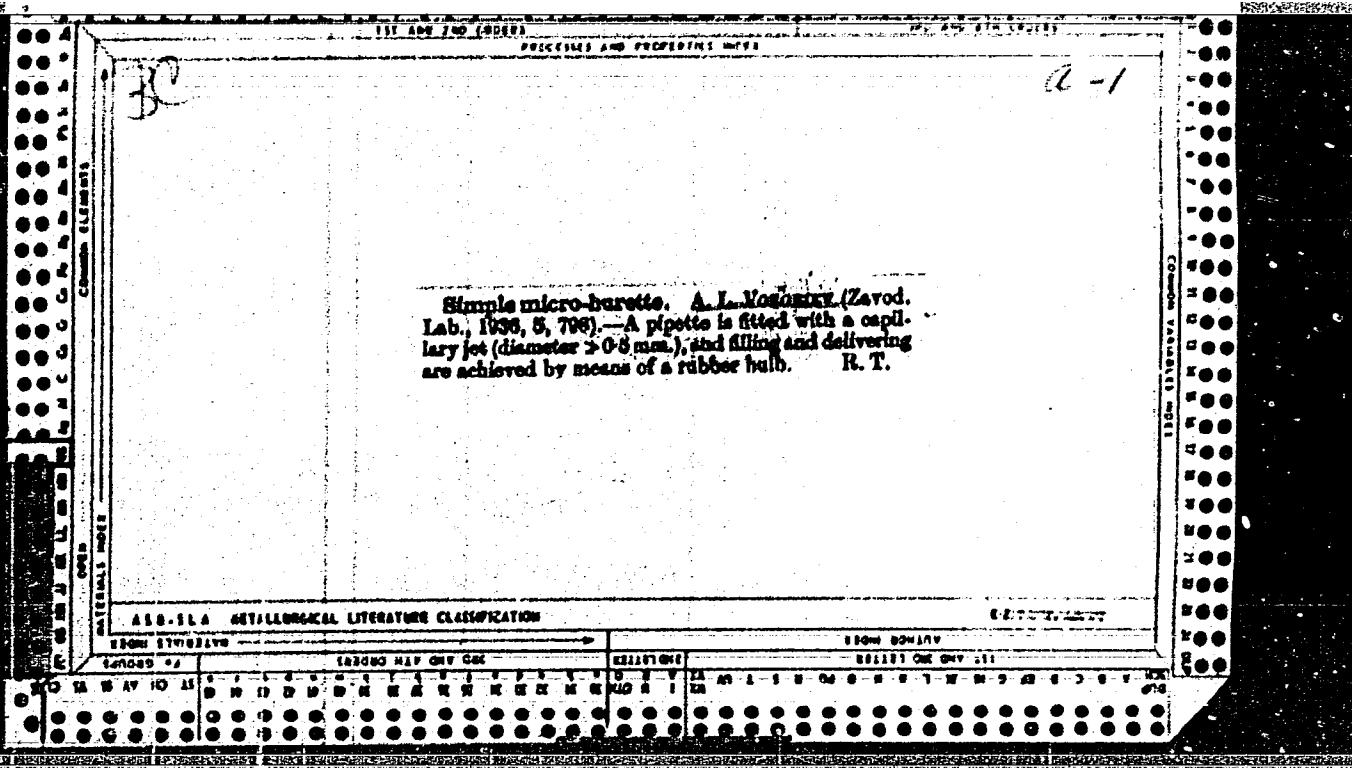
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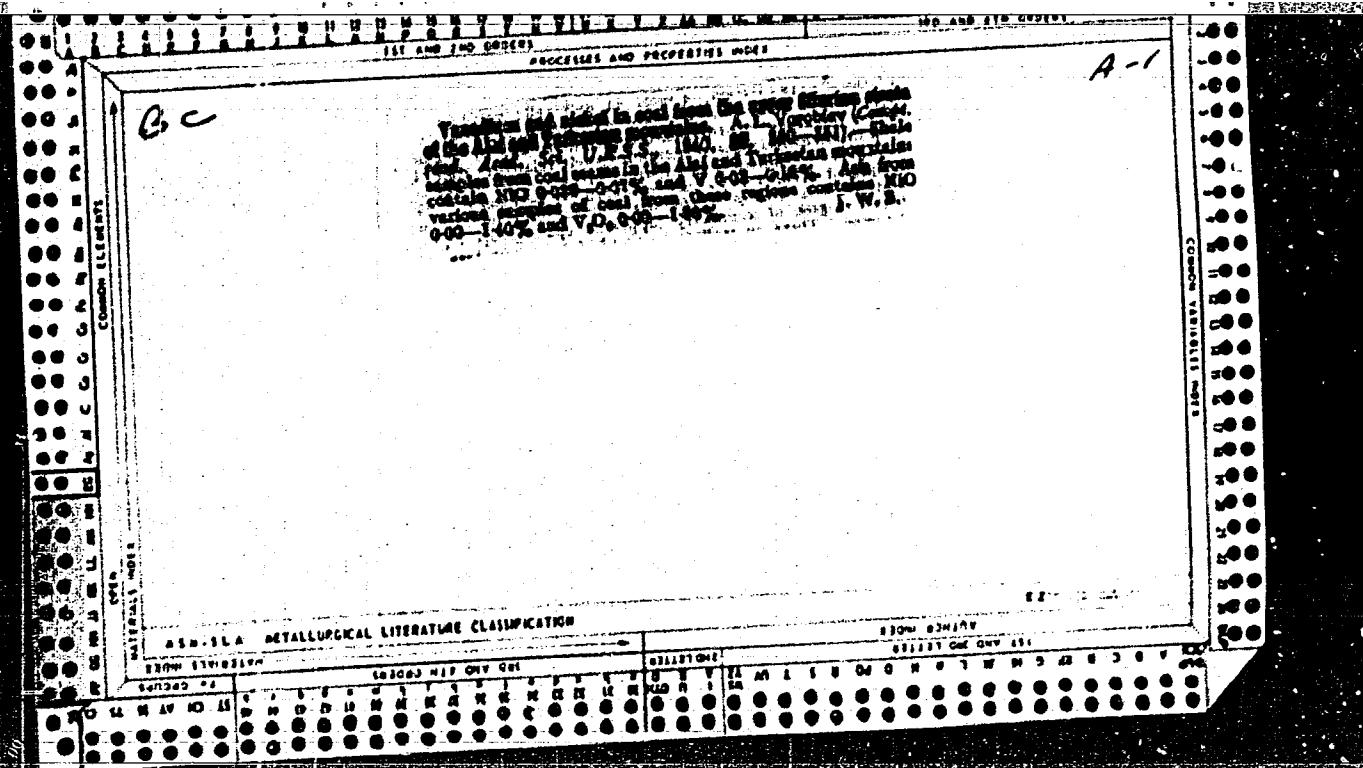
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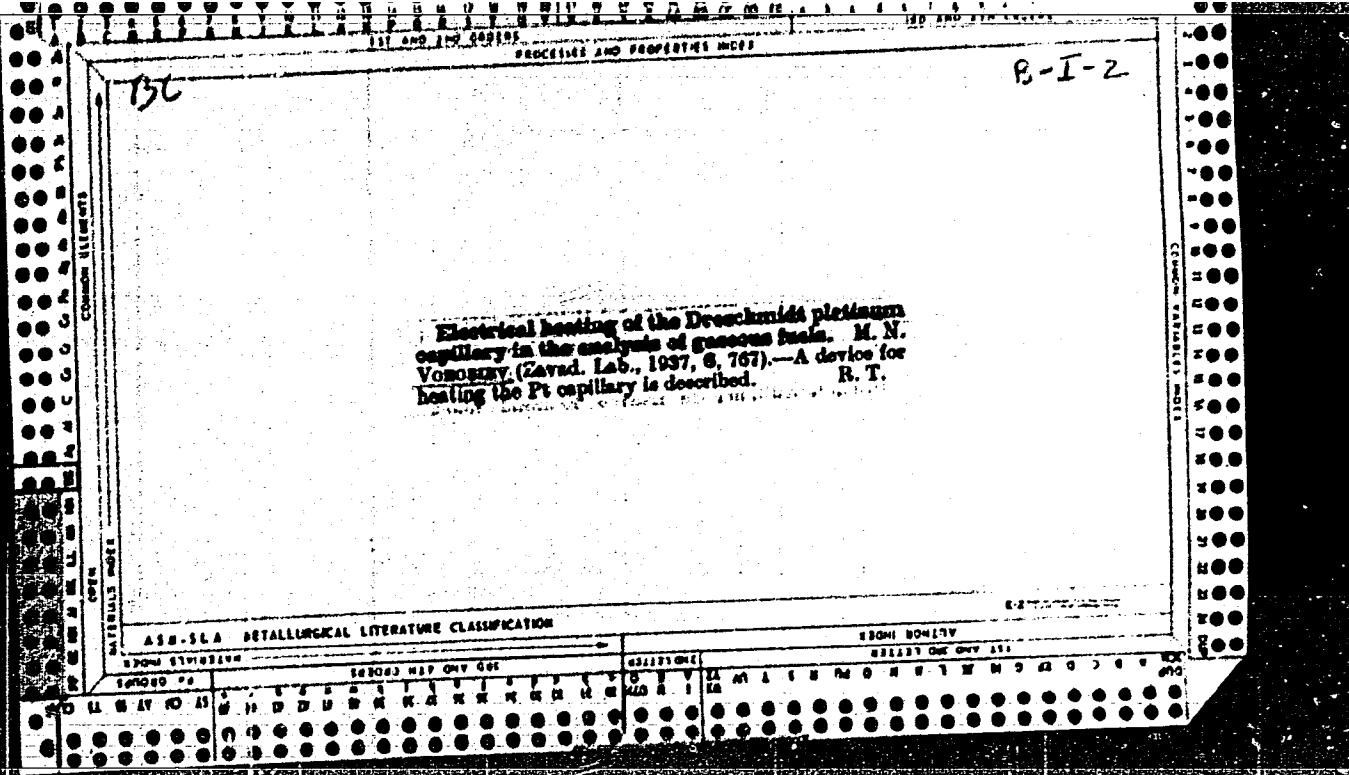
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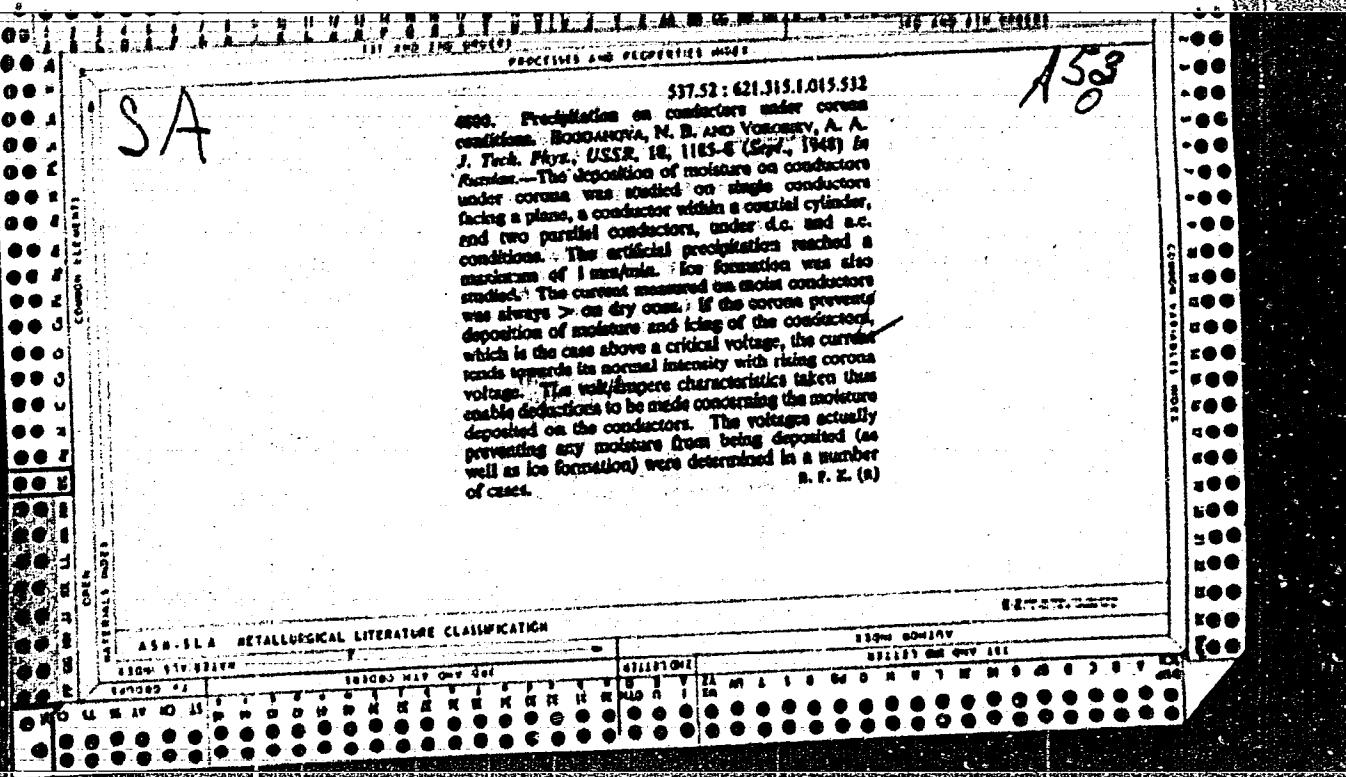
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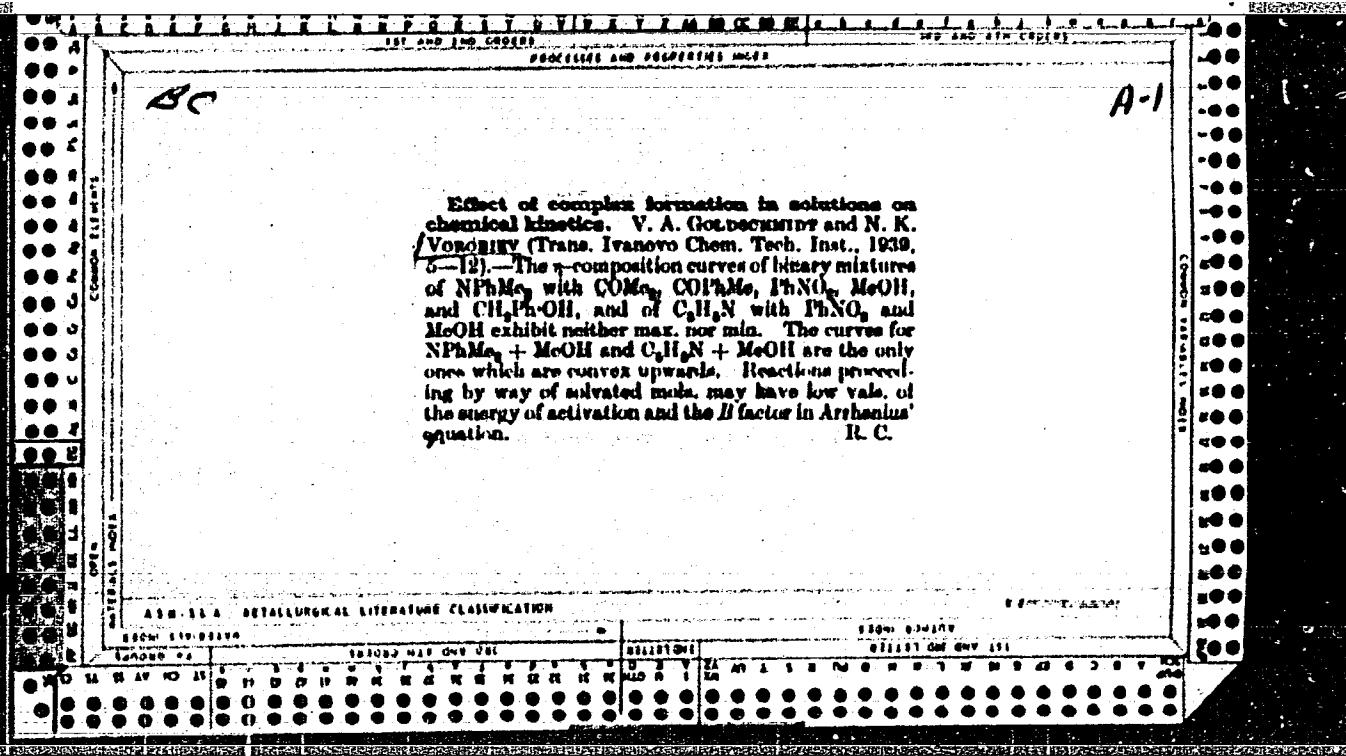




*m.a.**15.**Clearance*

"Reducing the Corrosion of Copper During Oxidation Processes in the Purification of Acetic Acid." A. I. Vaynshteyn (Lenkhim, Perm, Russ. Chem. Ind., 2, 18, 43-44; Chem. Zvesti, 1940, 11, (1), 205).—In industrial practice in plants for the purification of acetic acid with H_2O_2 , it has been shown the corrosion of copper by 77% acetic acid with H_2O_2 is so high that the maximum working life of the condenser is 10 days. In purification of 96-15% acetic acid with H_2O_2 , forming a 1.5% solution using CuO or $Na_2Cr_2O_7$, the corrosion would become so rapid as to make operations impracticable. V. and Shutor recommend the addition of H_2SeO_4 as the oxidizing agent, which reduces considerably the corrosion of copper. H_2SeO_4 and dilute acetic acid + either $KMnO_4$ or (t, t) - $Na_2C_2O_4$.

1963



BC

A7

Reaction of transition metal-nitrogen complexes. N. K. Vorob'ev (J. Phys. Chem. Russ., 1940, 14, no. 684). The rate of formation of quaternary Ni^{+2} salts, i.e., $\text{Ar}_2\text{N}^+ \text{Ni}^{+2} \text{Ar}_2\text{N}^-$, where Ar_2N^+ is determined at 30-40° in 0.1-0.5 M $\text{CH}_3\text{CH}_2\text{CH}_2\text{Br}$ (I) is determined at 30-40° in 0.1-0.5 M $\text{CH}_3\text{CH}_2\text{CH}_2\text{Br}$ (I). The highest const. of salt is observed for $\text{m-C}_6\text{H}_4\text{NMe}_2\text{Br}^+ \text{Ni}^{+2} \text{NMe}_2\text{Br}^-$ (II) in MeOH , and the order is $\text{C}_6\text{H}_4\text{NMe}_2\text{Br}^+ \text{Ni}^{+2} \text{NMe}_2\text{Br}^-$ (II) in PhNO_2 > $\text{Ni}^{\text{II}}\text{Me}_2\text{Br}^+ \text{Br}^-$ (III) in CHCl_3 > (III) in PhNO_2 > (III) in CO_2Me , > $\text{m-C}_6\text{H}_4\text{NMe}_2\text{Br}^+ \text{Ni}^{+2} \text{NMe}_2\text{Br}^-$ (II) in PhNO_2 > (III) in COPhMe > (II) in PhNO_2 . The velocity const. of the reactions $\text{C}_6\text{H}_4\text{N}^+ + (\text{I}) \rightarrow \text{C}_6\text{H}_4\text{NMe}_2\text{Br}^+ \text{Ni}^{+2} \text{NMe}_2\text{Br}^-$ and $\text{NPhMe}_2 + (\text{I}) \rightarrow (\text{II})$ in CHCl_3 increased in the course of one experiment because of the accelerating effect of the Ni^{+2} salt; the activation energies of these reactions are 18,300 and 21,900 g.-cal., respectively. Reaction const. and activation energies are also given for the formation and decompr. of (III) in PhNO_2 , CO_2Me , and COPhMe , and of m- and $\text{p-C}_6\text{H}_4\text{NMe}_2\text{Br}^+ \text{Ni}^{+2} \text{N}^-$ in PhNO_2 . These and earlier results show that the rate of formation of Ni^{+2} salts increases in the order $\text{CO}_2\text{Me} < \text{CHCl}_3 < \text{COPhMe} < \text{PhNO}_2$, and the rate of decompr. in the order $\text{CHCl}_3 < \text{CO}_2\text{Me} < \text{PhNO}_2 < \text{COPhMe}$. The pre-exponential factor in the Arrhenius equation is 10^4-10^5 for the rate of formation, and 10^4-10^6 for the rate of decompr.

J. J. B.

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CIA-RDP86-00513R001860810016-0

VOROBIEV, S. N.

Vorobiev, S. N. "Magnetic Observations in Karakum in 1929." Materialy Komissii
Ekspeditsionnykh Issledovanii, No. 29, 1930, pp. 209,212.

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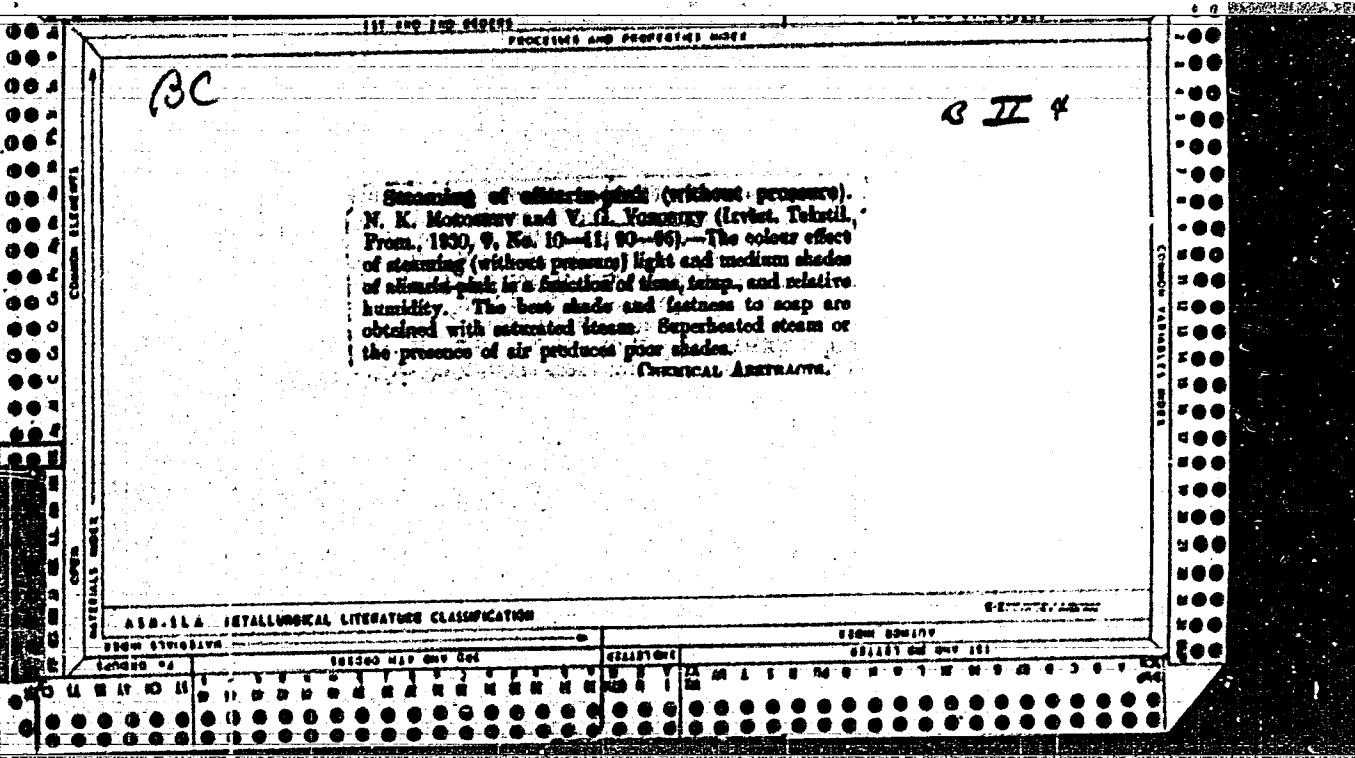
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VOROBIEV. V.

Altimeter for measuring minor altitudes. Tr. from the Russian. p.296.

TECHNICKA PRACA. Czechoslovakia, Vol. 7, No. 7, July 1955

Monthly List of East European Accessions (EEAI), LC. Vol. 8, No. 9, September 1959
Unc1.

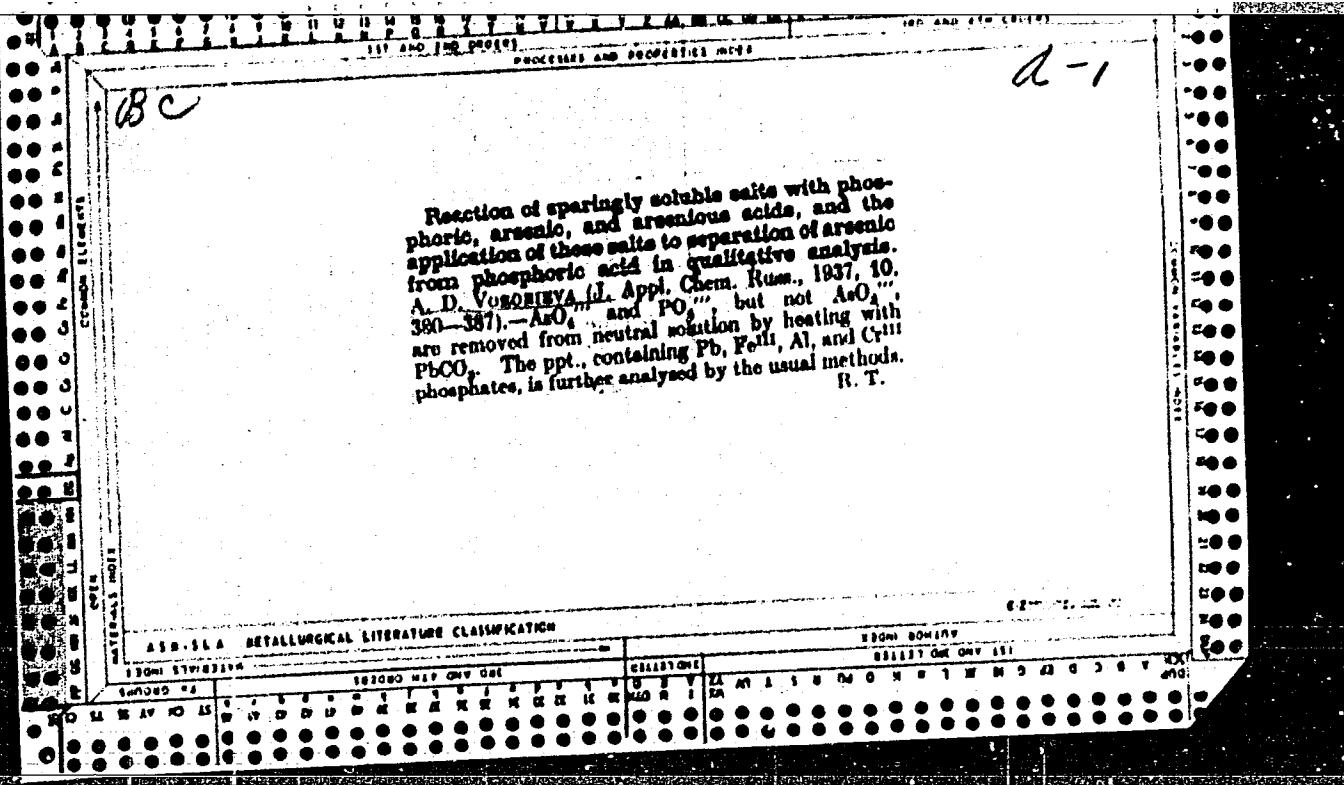


BC
BII
ANALYSIS OF "STABILINA" COMPOUNDS. A. A. YOKOZUKA
(Jpn. Journ. Nucleic Acids & Inst. Inst. Prom., 1959,
No. 4, 11-16). Stabilina solvents may contain CO_2 ,
 CH_3OAc , Et_2OAc , Et_2OAc , CH_3COAc , KOH ,
 MeOH , Fe(OH) , Zn(OH) , $\text{C}_6\text{H}_5\text{OH}$, $\text{C}_6\text{H}_5\text{Na}$, toluene,
gasoline, and unestimated compounds. An analytical
procedure is given.
Ca. Ass.

A58-114 METALLURICAL LITERATURE CLASSIFICATION

SEARCHED

SEARCHED		INDEXED		FILED	
S	M	I	X	F	1
C	A	N	O	E	2



BC

(A) Micro-volumetric determination of silicic acid in soluble silicates. (B) Microchemical determination of silicic acid in presence of other substances. A.D. VOROB'YVA (Zavod. Lab., 1936, p. 165, 166-167).--(a) The solution (in a paraffined flask) is made neutral with 0.01*N*-HCl, and 2-8 ml. of 2.5% NaF in 20% KCl are added, followed by 1-80 ml. of 0.01*N*-HCl. 5-10 ml. of H₂O₂ are added after 20 min., and excess of HCl is titrated. The sol. SiO₂ content is calc. on the basis of the equation: Na₂SiO₃ + 6NaF + 6HCl → Na₂SiF₆ + 6NaCl + 3H₂O. Trustworthy results are obtained for 0.16-7 mg. of SiO₂.
(b) Fe^{III} and Al, but not Mn^{VI}, Cr^{III}, Mo^{VI}, W^{VI}, V^V, and Fe^{II}, interfere with the above method.

ABR-3A METALLURGICAL LITERATURE CLASSIFICATION

SECOND EDITION

SECOND EDITION

3c

d 221

Determination of formaldehyde in various vegetable products. V. V. Tcherenkov and A. V. Voronova. J. Chem. Ind. Russ., 1939, No. 2, 27-35.— 10 g. of material are boiled with 40 ml. of 1% HCl, or of 20% H₂SO₄, the vol. being kept constant by addition of H₂O. The entire formaldehyde (I) content of the material is present in the first 50 ml. of distillate; this is neutralized, saturated with NaCl, and (I) is separated by fractional distillation. The content of (I) in various dry products is: rice straw 6.8; bean 5.0; wheat straw 5.6; bean 5.7; sunflower stalks 5.2; seed husks 11.8; soya stalks 5.0; pod membranes 7.0; cedar nut shells 5.3; bamboo 10.3; reeds 10.5; flax tow 7.0—10.1; hemp tow 8.5; cotton waste 7.2; ramie 4.6; oak wood 10.8; bark 7.8; extracted tannery bark 7.9; oat straw 14.6; henna 6.0; maize cob waste 18.0; stalks 18.0; husks 6.4%. R. T.

ASB-SEA METALLURGICAL LITERATURE CLASSIFICATION

194388 44 194388 44 194388 44 194388 44

EIGHTH EDITION
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